



STATE OF IOWA
MASTER AGREEMENT

MA# 005 CT2562P 2
EFFECTIVE BEGIN DATE: 01-01-2006
EXPIRATION DATE: 12-31-2006
PAGE: 1 of 4

BUYER : JEANETTE CHUPP
Jeanette.Chupp@iowa.gov
515-281-6288

FOB FOB Dest, Freight Prepaid

PAYMENT TERMS (%): DAYS:

VENDOR:

**PHILIPS ELECTRONICS
PO Box 406536**

**Atlanta, GA 30384-6538
USA**

VENDOR CONTACT:

Nathan Lemberg
PHONE: 800-263-3342 **EXT:** 8411
EMAIL: nathan.lemberg@philips.com
VENDOR #: 13342911502

DESCRIPTION OF ITEMS CONTRACTED

Defibrillators (AED's) per NASPO Contract SW60300.

HeartStart Brand, Automatic External Defibrillator (AED) Packages and Accessories per NASPO/Oklahoma Contract SW60300 and Philips Medical Systems Contract #751.

Toll-Free Ordering at Phone 800-263-3342 or FAX 206-664-2000

Iowa Customer Service Representative: Nathan Lemberg at phone 800-263-3342 #8411 or e-mail: Nathan.Lemberg@philips.com

Products include HeartStart MRx ALS Defibrillator/Monitor (M3536A), HeartStart FRx Defibrillator (861304), HeartStart FR2 Defibrillator (M3861A & M3860A) and OnSite Defibrillator (M5066A).

Contract Terms:

Pricing per SW603000 and Philips #751 Price List (Net Pricing).

Minimum Order: Standard Manufacturer's Package

Delivery: 30 days ARO

Payment Terms for "out of hospital" customers only (police, fire, EMS): Net 40 days

Payment Terms for all other customers: Net 30 days

Web-Site Catalog: <http://shop.medical.philips.com>

Re-stocking fee of no more than 10% after 60 days in the event of ordering error.

RENEWAL PERIODS

FROM 01-01-2007 **TO** 12-31-2010

THRESHOLDS

MINIMUM ORDER AMOUNT:

MAXIMUM ORDER AMOUNT:

NOT TO EXCEED AMOUNT:

AUTHORIZED DEPARTMENT

ALL

TOTAL \$0.00

VENDOR:

APPROVED BY:

THIS MA IS SUBJECT TO THE TERMS AND
CONDITIONS ATTACHED HERETO.
PLEASE SEE ATTACHMENTS FOR
FURTHER DESCRIPTIONS.



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LINE NO.	QUANTITY / SERVICE DATES	UNIT	COMMODITY / DESCRIPTION	UNIT COST / PRICE OF SERVICE
1	0.00000		4651420	\$0.000000
			DEFIBRILLATOR/MONITOR, AC OR DC POWER SOURCE	\$0.000000
2	0.00000		4651455	\$0.000000
			PARTS AND ACCESSORIES, DEFIBRILLATOR	\$0.000000



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TERMS AND CONDITIONS

Incorporation

The Request for Proposal and/or bid documents for this project and the vendor's proposal in response to the RFP or Bid together with any clarifications, attachments, appendices, or amendments of the State or the Vendor are incorporated into this Contract by reference as if fully set forth in this Contract.

Remedies upon Default

In any case where the vendor has failed to deliver or has delivered non-conforming goods and/or services, the State shall provide a cure notice. The notice to cure shall state the maximum length of time the vendor has to cure. If after the time period stated in the notice to cure has passed, the vendor continues to be in default, the State may procure goods and/or services in substitution from another source and charge the difference between the contracted price and the market price to the defaulting vendor. The State's Attorney General shall be requested to make collection from the defaulting vendor.

Force Majeure

Force majeure includes acts of God, war, civil disturbance and any other causes which are beyond the control and anticipation of the party affected and which, by the exercise of reasonable diligence, the party was unable to anticipate or prevent. These provisions of force majeure also apply to subcontractors or suppliers of the Vendor. Force majeure does not include financial difficulties of the Vendor or any associated company of the Vendor, or claims or court orders that restrict the Vendor's ability to deliver the goods or services contemplated by this Agreement. Neither the Vendor nor the State shall be liable to the other for any delay or failure of performance of this Agreement caused by a force majeure, and not as a result of the fault or negligence of a party.

Subcontractors

The successful vendor shall be responsible for all acts and performance of any subcontractor or secondary supplier that the successful vendor may engage for the completion of any contract with the State. A delay that results from a subcontractor's conduct, negligence or failure to perform shall not exempt the vendor from default remedies. The successful vendor shall be responsible for payment to all subcontractors and all other third parties.

Termination-Non-Appropriation

Notwithstanding any other provision of this contract, if funds anticipated for the continued fulfillment of this contract are at any time not forthcoming or insufficient, either through the failure of the State to appropriate funds, discontinuance or material alteration of the program for which funds were provided, then the State shall have the right to terminate this contract without penalty by giving not less than thirty (30) days written notice documenting the lack of funding, discontinuance or program alteration.

Immunity of State/Fed Agencies

The vendor shall defend and hold harmless the State and Federal funding source for the State of Iowa from liability arising from the vendor's performance of this contract and the vendor's activities with subcontracted and all other third parties.

Assignment

Vendors may not assign contracts or purchase orders to any party (including financial institutions) without written permission of the General Services Enterprise - Purchasing.

Anti-Trust Assignment

For good cause and as consideration for executing this purchase order, the vendor, through its duly authorized agent, conveys, sells, assigns, and transfers to the State of Iowa all rights, title and interest in and to all causes of action it may now or hereafter acquire under the anti-trust laws of the United States and the State of Iowa, relating to the particular goods or services purchased or acquired by the State of Iowa pursuant to the using State of Iowa agency.

Delivery and Acceptance

When an award has been made to a vendor and the purchase order issued, deliveries are to be made in the following manner.

- A. Deliveries - All deliveries are to be made only to the point specified on the purchase order. If delivery is made to any other point, it shall be the responsibility of the vendor to promptly reship to the correct location. Failure to deliver procured goods on time may result in cancellation of an order or termination of a contract at the option of the State.
- B. Delivery Charges - All delivery charges should be to the account of the vendor whenever possible. If not, all delivery charges should be prepaid by vendor and added to the invoice.
- C. Notice of Rejection - The nature of any rejections of a shipment, based on apparent deficiencies disclosed by ordinary methods of inspection, will be given by the receiving agency to the vendor and carrier within a reasonable time after delivery of the item, with a copy of this notice to the General Services Enterprise - Purchasing. Notice of latent deficiencies which would make items unsatisfactory for the purpose intended may be given by the State of Iowa at any time after acceptance.

Delivery and Acceptance (cont)

- D. Disposition of Rejected item - The vendor must remove at the vendor's expense any item rejected by the State. If the vendor fails to remove that rejected item, the State may dispose of the item by offering the same for sale, deduct any accrued expense and remit the balance to the vendor.
- E. Testing After Delivery - Laboratory analysis of an item or other means of testing may be required after delivery. In such cases, vendors will be notified in writing that a special test is being made and that payment will be withheld until completion of the testing process.

Title to Goods

The vendor warrants that the goods purchased hereunder are free from all liens, claims or encumbrances.

Indemnification

To the extent that goods are not manufactured in accordance with the State's design, the vendor shall defend, indemnify and hold harmless the State of Iowa, the State's assignees, and other users of the goods from and against any claim of infringement of any Letter Patent, Trade Names, Trademark, Copyright or Trade Secrets by reason of sale or use of any articles purchased hereunder. The State shall promptly notify the vendor of any such claim.

Nondiscrimination

The vendor is subject to and must comply with all federal and state requirements concerning fair employment and will not discriminate between or among them by reason of race, color, religion, sex, national origin or physical handicap.

Warranty

The vendor expressly warrants that all goods supplied shall be merchantable in accordance with the Uniform Commercial Code, Section 2-314 and the Iowa Code, Section 554.2314.

Taxes



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The State of Iowa is exempt from the payment of Iowa sales tax, motor vehicle fuel tax and any other Iowa tax that may be applied to a specified commodity and/or service. Contractors performing construction activities are required to pay state sales tax on the cost of materials. The Iowa Department of Revenue exemption letter will be furnished to a vendor upon request.

Hazardous Material

All packaging, transportation, and handling of hazardous materials shall be in accordance with applicable federal and state regulations including, but not limited to, the Material Safety Data Sheet provision of O.S.H.A. Hazard Communication Standard 29CFR 1910.1200, and Iowa Administrative Code, Chapter 567.

Public Records

The laws of the State of Iowa require procurement records to be made public unless exempted by the Code of Iowa.

Miscellaneous

The terms and provisions of this contract shall be construed in accordance with the laws of the State of Iowa. Any and all litigation or actions commenced in connection with this contract shall be brought in Des Moines, Iowa, in Polk County District Court for the State of Iowa. If however, jurisdiction is not proper in Polk County District Court, the action shall only be brought in the United States District Court for the Southern District of Iowa, Central Division, providing that jurisdiction is proper in that forum. This provision shall not be construed as waiving any immunity to suit or liability, which may be available to the State of Iowa.

If any provision of this contract is held to be invalid or unenforceable, the remainder shall be valid and enforceable.

Records Retention

The vendor shall maintain books, records, and documents which sufficiently and properly document and calculate all charges billed to the State of Iowa throughout the term of this Agreement for a period of at least five (5) years following the date of final payment or completion of any required audit, whichever is later. The vendor shall at, no charge, permit the Auditor of the State of Iowa, or any authorized representative of the State (or where federal funds are involved, the Comptroller General of the United States or any other authorized representative of the United States government) to access and examine, audit, excerpt and transcribe any directly pertinent books, documents, papers, electronic or optically stored and created records, or other records of the vendor relating to orders, invoices, or payments documentation or materials pertaining to this Agreement.

Independent Contractor

The vendor is an independent contractor performing services for the State of Iowa, and as such shall not hold itself out as an employee or agent of the State.

Performance Monitoring

For all service contracts, the requirements of Iowa Code sections 8.47 shall be incorporated into final terms and conditions of the contract.

PARTICIPATING ADDENDUM
NASPO/Oklahoma AED Contract
Contract SW 60300

State of Iowa, Contract CT2562P

Phillips Medical Systems #751

1. Participating Jurisdiction:

State of Iowa, Department of Administrative Services (DAS), General Services Enterprise, Purchasing Section, 1305 East Walnut Street, Hoover State Office Building, Des Moines, Iowa, 50319-0105.

Within the State of Iowa, all state agencies, facilities and political sub-divisions (cities, counties, school districts and universities) or any entity funded in full or in part by tax dollars, are eligible purchasers and authorized to purchase products and services under the terms of this agreement.

2. Changes:

A.) The Contractor shall provide a semi-annual, electronic report on all sales made against this agreement with the State of Iowa to the State's primary contact listed below. The report at a minimum shall include the order date, State order number, customer name, product name/number, quantity, order total price and the semi-annual grand-total price.

B.) Contractor's stated pricing shall be the prices approved and agreed to with the State of Oklahoma (NASPO).....

Contract Title: Automated External Defibrillators (AED'S)

Contract Number: SW60300

Contractor: Phillips Medical Systems .. Contract #751

C.) The Contractor's stated pricing shall be the maximum purchase price. The Contractor may offer, within written quotations, a lower price for volume purchases or for competitive reasons.

3. Lease Agreements: Equipment Lease is not available.

4. Primary Government Contact:

Jeanette Chupp, C.P.M., Purchasing Agent III

Iowa Dept of Administrative Services

General Services Enterprise – Purchasing

1305 East Walnut Street, Hoover State Office Building, Level A

Des Moines, Iowa, 50319-0105

Phone: 515-281-6288 or FAX 515-242-5974

E-Mail: Jeanette.Chupp@iowa.gov

Primary Contractor Contact:

Contract Administrator: Amy Rosenleaf

Ph. 206-664-5113 or e-mail: amy.rosenleaf@philips.com

Iowa Customer Service Representative: Nate Lemberg

Ph. 800-263-3342 #8411 / e-mail address: Nathan.lemborg@philips.com

Iowa Sales Representative: Dean Sanders
Ph. 800-218-2045 #5346 / e-mail address: dean.sanders@philips.com

Philips Medical Systems
2301 Fifth Avenue, Suite 200, Seattle, WA 98112

Electronic Equipment and Supplies Catalog: <http://shop.medical.philips.com>

- 5.) Subcontractors: Subcontractors are not authorized under this agreement.
The State of Iowa does not compensate subcontractors.

This Addendum and the NASPO Price Agreement together with its exhibits, set forth the entire agreement between the parties with respect to the subject matter of all previous communications, representations or agreements, whether oral or written, with respect to the subject matter hereof. Terms and conditions inconsistent with, contrary or in addition to the terms and conditions of this Addendum and the NASPO Price Agreement, together with its exhibits, shall not be added to or incorporated into this Addendum or the Price Agreement and its exhibits, by any subsequent purchase order or otherwise, and any such attempts to add or incorporate such terms and conditions are hereby rejected. The terms and conditions of this Addendum and the NASPO Price Agreement and its exhibits shall prevail and govern in the case of any such inconsistent or additional terms.

IN WITNESS WHEREOF, the parties have executed this Addendum as of the date of execution by both parties below.

State of Iowa

By: Debbie O'Leary

Name: Debbie O'Leary

Title: Administrator, DAS GSE

Date: 2/2/06

Jeanette Chapp, Feb. 2, 2006

Philips Medical Systems

By: Anita Rodgers

Name: Anita Rodgers

Title: Manager, Business Operations
Contract Administrator

Date: 3/13/06

Anita Rodgers
Business Operations
Manager



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Jeanette.Chupp@iowa.gov
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FOB FOB Dest, Freight Prepaid

PAYMENT TERMS (%): DAYS:

VENDOR:

PHILIPS ELECTRONICS
PO Box 406536

Atlanta, GA 30384-6538
USA

VENDOR CONTACT:

Nathan Lemberg
PHONE: 800-263-3342 EXT: 8411
EMAIL: nathan.lemberg@philips.com
VENDOR #: 13342911502

DESCRIPTION OF ITEMS CONTRACTED

Defibrillators (AED's) per NASPO Contract SW60300.

HeartStart Brand, Automatic External Defibrillator (AED) Packages and Accessories per NASPO/Oklahoma Contract SW60300 and Philips Medical Systems Contract #751.

Toll-Free Ordering at Phone 800-263-3342 or FAX 206-664-2000

Iowa Customer Service Representative: Nathan Lemberg at phone 800-263-3342 #8411 or e-mail: Nathan.Lemberg@philips.com

Products include HeartStart MRx ALS Defibrillator/Monitor (M3536A), HeartStart FRx Defibrillator (861304), HeartStart FR2 Defibrillator (M3861A & M3860A) and OnSite Defibrillator (M5066A).

Contract Terms:

Pricing per SW603000 and Philips #751 Price List (Net Pricing).

Minimum Order: Standard Manufacturer's Package

Delivery: 30 days ARO

Payment Terms for "out of hospital" customers only (police, fire, EMS): Net 40 days

Payment Terms for all other customers: Net 30 days

Web-Site Catalog: <http://shop.medical.philips.com>

Re-stocking fee of no more than 10% after 60 days in the event of ordering error.

RENEWAL PERIODS

FROM 01-01-2007 TO 12-31-2010

THRESHOLDS

MINIMUM ORDER AMOUNT:

MAXIMUM ORDER AMOUNT:

NOT TO EXCEED AMOUNT:

AUTHORIZED DEPARTMENT

ALL

TOTAL \$0.00

VENDOR:

APPROVED BY:

Jeanette Chupp, Feb. 2, 2006

THIS MA IS SUBJECT TO THE TERMS
AND CONDITIONS ATTACHED HERETO.
PLEASE SEE ATTACHMENTS FOR
FURTHER DESCRIPTIONS.

PHILIPS MEDICAL SYSTEMS
(Power to Save A Life)
Contract #751

HeartStart MRx ALS Defibrillator/Monitor (M3536A)
HeartStart FRx Defibrillator (861304)
HeartStart FR2 Defibrillator (M3861A & M3860A)
OnSite Defibrillator(M5066A)

VENDOR REPRESENTATIVES

Oklahoma	Joseph Stevenson - 1-800-218-2045 x 5794
Utah	Leslie Neville - 1-800-218-2045 x6227 – Salt Lake City Area Brooks Hoven - 1-800-218-2045 x7944 – Rest of the State
Louisiana	Jeff Goethe - 1-800-218-2045 x 7941 – Shreveport Area Joseph Stevenson - 1-800-218-2045 x 5794 – Rest of the State
Hawaii	Michael Gorman - 1-800-218-2045 x7942
Nevada	Brian Stafford - 1-800-218-2045 x5673 – Reno Area Kevin O'Grady - 1-800-218-2045x5585 – Las Vegas Area Susan Haberman - 1-800-218-2045x5488 – Rest of the State
North Dakota	Brooks Hoven - 1-800-218-2045x7944
Missouri	Dean Sanders - 1-800-218-2045x5346

Please note: the individuals listed above are Philips sales representatives covering specific geographical territories, and should be the first point of contact for customers wishing to order Philips defibrillators. Customers with general inquiries, **sales representative contacts not listed above**, technical support inquiries or accessories orders should call Philips Customer Services at 1-800-236-3342.

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*Nathan Lemberg
philips.com
ext. #8411*

State of Oklahoma
(NASPO)

ORDERING INFORMATION

1. Part numbers are listed on the attached Price List.
2. No maximum order limitation.
3. No minimum order.
4. Geographic coverage: All 50 State, District of Columbia
5. Points of Production: Andover, MA and Seattle, WA
6. Discount: Prices shown herein are Net (discount deducted)
7. Quantity Discounts: See attached Price Sheets. Note: Volume discounts are based on single order volume rather than cumulative order volume.
8. Prompt Payment Discounts: NA. Philips' standard payment terms are net 30 days. Per the terms of this contract, Philips will extend payment terms of net 40 days to the State of Oklahoma, NASPO, and any Participating States for the duration of the contract. This offer is extended to "out of hospital" customers only (ex. Police, fire, EMS)
9. Accept Government Commercial Credit Card
10. Time of Delivery: 30 Days ARO
Expedited Delivery: Upon Request. Subject to additional cost and availability
11. Ordering Address: Philips Medical Systems
2301 Fifth Avenue, Suite 200
Seattle WA 98121
12. Ordering Toll Free Number: 800-263-3342
13. Ordering Free Fax Number: 206-664-2000
14. Payment Address: Philip Medical Systems
P O Box 406538
Atlanta, GA 30384-6538
15. Location of Service and Distribution Points: Andover, MA and Seattle, WA.
16. Electronic Equipment and Supplies Catalog:
<http://shop.medical.philips.com>

Each customer must register with Philips. Once registered, customers will be able to log into the eStore and shop in a personalized version of the Philips on-line store. All items will be priced at the contracted prices for NASPO Participating States and other eligible political subdivisions. Customers' contract information, order history (whether the order was placed on-line or not) access to product information and many other benefits.

17. Payment Address: Philips Medical Systems
P.O. Box 406538
Atlanta, GA. 30384-6538

GENERAL INFORMATION

16.0 AUDIT AND RECORDS REQUIREMENTS: As used in this clause, "records" includes books, documents, accounting procedures and practices, and other data, regardless of type and regardless of whether such items are in written form, in the form of computer data, or in any other form. The Contractor agrees to allow the Oklahoma State Auditors Office, Central Purchasing Procurement Officers, the requisitioning agency, or their authorized representatives access to the records, books, documents, accounting procedures, practices or any items of the services provided relevant to this contract for purpose of audit, examination, etc. The contractor further agrees to assure appropriate access by the aforementioned parties to any subcontractor's

associated records. Clarification: Philips will allow the Oklahoma State Auditors Office, Central Purchasing Procurement Officers, the requisitioning agency, or their authorized representatives the right to audit only those records directly related to the purchase and sale of Defibrillators and related products by Philips to the State of Oklahoma, other Participating States, or other eligible agencies under contract.

20.0 SAVE HARMLESS: To the fullest extent permitted by law, Contractor shall indemnify, defend, and save harmless the State(s), agencies of the State(s), and all officers and employees of the State(s), from and against any and all claims for injuries or death, including claims by Contractor's employees, or for damages arising out of, resulting from, or incident to Contractor's performance or failure to perform the contract, or for patent, trademark, copyright, or franchise infringement arising from the purchase, installation, or use of goods and services ordered. The parties intend that each shall be responsible for its own intentional and negligent acts or omissions to act. The State shall be responsible for the acts and omissions to act of its officers, and employees while acting within the scope of their employment according to the Governmental Tort Claims Act, Title 51, O.S.S., §§151 et seq.

32.8. PATENTS, COPYRIGHTS, ETC: The Contractor shall release, defend, indemnify, and hold harmless NASPO, Oklahoma, the Participating States, and the Purchasing Entities, as well as the officers, agents and employees of NASPO, the Participating States and the Purchasing Entities, from liability of any kind or nature related to the purchases and sale of AEDs by Philips to the State of Oklahoma, NASPO, and other Participating States, including the Contractor's use of any copyrighted or uncopyrighted composition, process, patented or unpatented invention, article or appliance furnished or used in performance of this contract.

32.13. REPORTS: The contractor shall submit quarterly reports to the Lead State Contracting Officer and upon request to any Participating State, showing the quantities and dollar volume of purchases by each Purchasing Entity. Clarification: Philips can comply with the requirement to submit quarterly reports to the Lead State Contracting and Procurement Officer. Philips can also submit reports tot Participating States provided Philips is given a reasonable notice that such reports are required.

32.18. Warranty: The Contractor agrees to warrant and assume responsibility for each hardware, firmware, and/or software product (hereafter called the product) that it licenses, or sells, to the Purchasing Entity under this contract. The contractor acknowledges that the Uniform Commercial Code applies to this contract. In general, the Contractor warrants that: (a) the product will live up to all specific claims that the manufacturer makes in advertisements, (b) the product will be suitable for the ordinary purposes for which such product is used, (c) the product has been properly designed and manufactured, and (d) the product is free of significant defects or unusual problems about which the Purchasing Entity has been warned. If problems arise with respect to these warranties, the contractor will repair or replace (at no charge to the Purchasing Entity) the product whose noncompliance is discovered and made known to the contractor in writing during the warranty period. Nothing in this warranty will be construed to limit any rights or remedies the Purchasing Entity may otherwise have under this contract with respect to defects.

32.44. Audit of Records: The Contractor agrees to allow NASPO, State and Federal Auditors, and State agency staff access to all the records related to this contract, and the right to copy those records, for audit, inspection and monitoring of services. Such access will be during normal

business hours, or by appointment. Clarification: Philips will allow NASPO, State and Federal Auditors, and State agency staff the right to audit only those records directly related to the purchase and sale of Defibrillators and related products by Philips to the State of Oklahoma, other Participating States, or other eligible agencies under contract.

39.0 MINIMUM REQUIRED SPECIFICATIONS Clarification: Philips is bidding three different AED models (HeartStart FRx, FR2 and OnSite) as well as one Defibrillator/Monitor (HeartStart MRx). The three AED models will be priced as specified in this section; please see separate pricing sheet for the Defibrillator/Monitor. Data management software will be priced separately as it is normally used per site rather than per device. For AEDs, users can download a free version of Philips HeartStart Event Review software at the following link:

http://www.medical.philips.com/main/products/resuscitation/products/event_review/free_reviewexpress.html

38.0 CONTRACTED PRODUCTS: It is likely the majority of the AED's to be purchased by states will be of the model which includes all of the mandatory features listed in this solicitation. However, some states may choose to include other optional features with the models they purchase. Of the following options, please indicate the features that are already included in your base price bid and/or include a price for the optional item, if it can be included with the base model.

INCLUDED (Indicate Y or N)

For HeartStart FRX defibrillator (product 861304)

☐ On-screen ECG Display Screen

☒ Voice Prompts (check breathing, check pulse, check circulation) included in unit costs

☐ Manual Override

☐ Surface Wall Mount Cabinet -see accessory price sheet

☒ Carrying Case

☐ Training System- (If not included as feature of actual AED.) - see accessory price sheet

For HeartStart FR2 defibrillator (product M3861A)

☐ On-screen ECG Display Screen

☒ Voice Prompts (check breathing, check pulse, check circulation) included in unit costs

☐ Manual Override

☐ Surface Wall Mount Cabinet -see accessory price sheet

☒ Carrying Case

☐ Training System- (If not included as feature of actual AED.) - see accessory price sheet

For HeartStart FR2 defibrillator (product M3860A)

☒ On-screen ECG Display Screen- included in unit costs

☒ Voice Prompts (check breathing, check pulse, check circulation) included in unit costs

☒ Manual Override* requires purchase of M86A, M3855A- Training & Adm Pack and Charger

☐ Surface Wall Mount Cabinet -see accessory price sheet

☒ Carrying Case

☐ Training System- (If not included as feature of actual AED.) - see accessory price sheet

For HeartStart OnSite Defibrillator (product M5066A)

☐ On-screen ECG Display Screen

☒ Voice Prompts (check breathing, check pulse, check circulation) included in unit costs

N_____Manual Override

N_____Surface Wall Mount Cabinet -see accessory price sheet

Y_____Carrying Case

N_____Training System- (If not included as feature of actual AED.) - see accessory price sheet

25.1. RESTOCKING FEES/RETURN OF GOODS: Contractor's restocking fee is limited to no more than 10% of contract price. This fee will be charged after 60 days to return goods to vendor in the event of ordering error by the agency. The Contractor will accept unopened goods freight prepaid with return of goods authorization within 12 months of the receipt of goods. Products delivered to an agency in error are to be returned at no cost to the agency. Any other return due to faulty or non-merchantable product will be within 30 days, which is time to perfect a claim on the product delivery by freight damage or product performance.

STATE OF OKLAHOMA/NASPO CONTRACT PRICING-CONTRACT #SW60030

Philips Electronics North America Corporation, doing business as Philips Medical Systems

HEARTSTART MRx ALS MONITOR/DEFIBRILLATOR

0465-14-18 (To order, list part numbers, descriptions, prices and total under this commodity code)

REF/Description		EACH PRICE	QUANTITY DISCOUNT
M3536A HeartStart MRx ALS Monitor/Defibrillator; Lithium ion battery with capacity gauge, hands-free multifunction electrode cable, 3-lead ECG cable, disposable monitoring electrodes, strip chart recorder paper, Carrying case, defibrillator test load, documentation CD containing instructions for use (User's Guide), Quick reference cards, User training workbook and Application notes. Standard Configuration: ST/AR Basic algorithm for arrhythmia detection, ECG monitoring through monitoring electrodes and defibrillation pads, Synchronized cardioversion; Adjustable ECG size and autogain, Manual and AED operation, SMART Biphasic waveform for defibrillation therapy, Large 4-wave color display, Strip chart printer, Individual, adjustable volume of QRS beeper, voice prompts and alerts; Event summary; Configuration mode; Service mode; Operational checks; Automated self-tests with "ready-for-use" indicator; Lithium battery with capacity gauge. Weight 13.2 lbs including pads, pads cable, full roll of paper, and battery. Incremental weight of external standard paddles and paddle tray is 2.5lbs. Additional battery weighs 1.6lbs.		\$7400.00	Please see attached for unit and all ordering options.
Philips Heartstart MRx Optional Ordering Information			
	Product Reference and Description	EACH PRICE	QUANTITY DISCOUNT
A01	SpO2	\$1200.00	
A02	SpO2 and NBP	\$3600.00	
A03	SpO2, NBP, and EtCO2	\$6800.00	
A04	EtCO2	\$3200.00	
B01	External Pacing	\$1880.00	
B02	12 Lead ECG acquisition	\$2800.00	
C02	Water Resistant External Paddles	\$520.00	
C03	Data Card	\$71.20	
C05	Additional Battery	\$260.00	
C06	AC Power module	\$300.00	
C07	Barrel style Pad Cable (replacement for Standard Pad Cable)	\$0.00	
C15	5-Lead ECG Cable	\$40.00	
LPI	Instructions for Use (printed copy)	\$0.00	
LP2	User Training Video (English only)	\$20.00	
LPK	Alternate Label Set, AED/Energy Select	\$0.00	
SM1	Service Manual (English only)	\$60.00	
SM3	Service Video (English only)	\$20.00	
Philips MRx UPGRADES		EACH PRICE	QUANTITY DISCOUNT
M3530A	SpO2,	\$1400.00	
M3531A	NBP,	\$2800.00	
M3532A	EtCO2	\$4000.00	
M3233A	Pacing	\$2280.00	
M3536A	12-Lead ECG		
M3534A	Option BO2- Acquisition	\$2800.00	
	Option BO3- Transmission *	\$800.00	
	Option BO4- Wider Printer **	\$400.00	
M5527A	External Paddles with Paddle Tray (opt. 001 standard \$440.00)	\$80.00	
	Option CO2- Water Resistant Paddles	\$520.00	
M5527A	M3543A* Water Resistant External Paddles	\$520.00	
MRx Multifunction Electrode Pads		EACH PRICE	QUANTITY DISCOUNT
M3713A	Adult Plus	\$223.30	n/a (all
M3716A	Adult Radiolucent	\$238.70	accessories)

* ** Options BO3 and BO4 available as options at time of unit purchase also.
Prices remain the same if purchased at time of unit purchase.

	M3717A	Pediatric Plus	\$119.35	
	M3718A	Adult Radiotransparent/Reduced Skin	\$323.40	
	M3719A	Pediatric Radiotransparent/Reduced Skin	\$138.60	
	DP2	Self-Adhesive adult electrode pads	\$44.85	
	DP6	Self-Adhesive adult electrode pads	\$116.35	
MRx Pads Cable			EACH PRICE	QUANTITY DISCOUNT
	M3508A	Defib Hands-free, plug style	\$98.56	
MRx ECG Monitoring Electrodes			EACH PRICE	QUANTITY DISCOUNT
	M2202A	High-Tack Foam, 5 electrodes/pack (60pack/case)	\$84.70	
MRx ECG Cables – 12-Lead Cable Set			EACH PRICE	QUANTITY DISCOUNT
	M3525A	10-lead ECG Trunk Cable, 12-pin Connector (for 3-lead and 12-Lead use)	\$153.23	
	M3526A	3-Lead ECG Set and Plug with Snap (AAMI)	\$57.75	
	M3527A	Add 7-Lead ECG Set for 12-Lead use (AAMI)	\$76.23	
	M3528A	3-Lead ECG Set and Plug with Snap (IEC)	no bid	
	M3529A	Add 7-Lead ECG Set for 12-lead use (IEC)	no bid	
	M1949A	10-lead ECG Trunk Cable, 12-pin ECG Input Connector (for 5-lead and 12-Lead use)	\$147.62	
MRx ECG Cables				
	M1968A	10-electrode Cable Set, Extremities, Grabber (Use with M1976A)(AAMI)	\$63.71	
	M1976A	10-electrode Cable Set, Chest, Grabber (Use with M1968A)(AAMI)	\$63.14	
	M1971A	10-electrode Cable Set, Extremities, Grabber (Use with M1978A)(IEC)	no bid	
	M1978A	10-electrode Cable Set, Extremities, Grabber (Use with M1971A)(IEC)	no bid	
MRx 3-Lead Cable Set			EACH PRICE	QUANTITY DISCOUNT
	M1500A	3-Lead ECG Trunk Cable (AAMI)	\$60.06	
	M1606A	3-Lead ECG Set with Snaps (AAMI)(item # should be M1605A)	\$47.74	
	M1510A	3-Lead ECG Trunk Cable (IEC)	no bid	
	M1615A	3-Lead ECG Set with Snaps (IEC)	no bid	
MRx 5-Lead Cable Set			EACH PRICE	QUANTITY DISCOUNT
	M1520A	5-Lead ECG Trunk Cable (AAMI)	\$76.23	
	M1625A	5-Lead ECG Set with Snaps (AAMI)	\$63.14	
	M1530A	5-Lead ECG Trunk Cable (IEC)	no bid	
	M1635A	5-Lead ECG Set with Snaps (IEC)	no bid	
MRx SpO2 Sensors/Cables			EACH PRICE	QUANTITY DISCOUNT
	M1191A	Reusable SpO2 Sensors-Adult Finger (6.5ft.)	\$192.50	
	M1191AL	Reusable SpO2 Sensors –Adult Finger (9.8ft.)	\$192.50	
	M1192A	Reusable SpO2 Sensors-Pediatric/Small Adult Finger	\$192.50	
	M1193A	Reusable SpO2 Sensors- Adult Thumb	\$192.50	
	M1194A	Reusable SpO2 Sensors – Adult Ear Clip	\$192.50	
	M1195A	Reusable SpO2 Sensors - Infant	\$192.50	
	M1941A	SpO2 Extension Cable, (6.5ft.)	\$79.31	
	M1943A	Nellcor SpO2 Sensor Adapter Cable, (3.6ft)	\$138.60	
	M1943AL	Nellcor SpO2 Sensor Adapter Cable (9.8ft.)	no bid	
MRx EtCO2 Non-Intubated Dual Purpose Circuits (CO2 +O2)				
	M2520A	Smart CapnoLine -Pediatric	\$283.36	
	M2521A	Smart CapnoLine -Intermediate	\$283.36	
	M2522A	Smart CapnoLine - Adult	\$283.36	
MRx EtCO2 Intubated Circuits				
	M1920A	Filter Line Set-Adult/pediatric (25 sets/case)	\$177.10	
	M1921A	Filter H Set-Adult/pediatric (25 sets/case)	\$275.66	
	M1923A	Filter H Set-Adult/pediatric (yellow 25 sets/case)	\$354.20	
Philips Heartstart MRx			EACH PRICE	QUANTITY DISCOUNT
MRx NBP Interconnect Cable				

	M1598B	Adult Pressure (4.9ft.)	\$45.43	
	M1599B	Adult Pressure (9.8ft.)	\$45.43	
MRx NBP Reusable Blood Pressure Cuffs			EACH PRICE	QUANTITY DISCOUNT
	40400A	Reusable NBP Cuff, 3sizes (pediatric, adult, large adult)	\$101.64	
	40400B	Reusable NBP Cuff, 5sizes (Infant, pediatric, adult, large adult, thigh)	\$177.87	
	40401A	Traditional Reusable NBP Cuff -Infant	\$20.79	
	40401B	Traditional Reusable NBP Cuff-Pediatric	\$22.33	
	40401C	Traditional Reusable NBP Cuff-Adult	\$26.18	
	40401D	Traditional Reusable NBP Cuff-Large Adult	\$32.34	
	40401E	Traditional Reusable NBP Cuff-Thigh	\$41.58	
	M4552A	Antimicrobial Reusable NBP Cuff-Infant	\$20.02	
	M4553A	Antimicrobial Reusable NBP Cuff-Pediatric	\$21.56	
MRx NBP Reusable Blood Pressure Cuffs			EACH PRICE	QUANTITY DISCOUNT
	M4554A	Antimicrobial Reusable NBP Cuff-Adult	\$25.41	
	M4555A	Antimicrobial Reusable NBP Cuff-Small Adult	\$23.87	
	M4557A	Antimicrobial Reusable NBP Cuff-Large Adult	\$24.64	
	M4559A	Antimicrobial Reusable NBP Cuff- Thigh	\$28.49	
	M1572A	Multi-Patient Comfort Cuffs-Pediatric	\$26.18	
	M1573A	Multi-Patient Comfort Cuffs-Small Adult	\$30.80	
	M1574A	Multi-Patient Comfort Cuffs-Adult	\$30.80	
	M1575A	Multi-Patient Comfort Cuffs-Large Adult		
MRx Disposable Blood Pressure Cuffs				
	M4572A	Soft Single-Patient Disposable Cuff-Infant	\$63.14	
	M4573A	Soft Single-Patient Disposable Cuff-Pediatric	\$48.51	
	M4574A	Soft Single-Patient Disposable Cuff-Small Adult	\$50.05	
	M4575A	Soft Single-Patient Disposable Cuff-Adult	\$53.90	
	M4576A	Soft Single-Patient Disposable Cuff-Adult X-Long	\$65.45	
	M4577A	Soft Single-Patient Disposable Cuff-Large Adult	\$53.90	
	M4578A	Soft Single-Patient Disposable Cuff-Large Adult X-Long	\$73.15	
	M4579A	Soft Single-Patient Disposable Cuff-Thigh	\$63.91	
MRx Non-Intubated Single Purpose Circuits (CO2)				
	M2524A	Smart CapnoLine -Pediatric	\$247.94	
	M2525A	Smart CapnoLine -Intermediate	\$247.94	
	M2526A	Smart CapnoLine - Adult	\$247.94	
MRx Power				
	M3538A	Lithium battery with Capacity Gage	\$250.25	
	M3539A	AC Power Module	\$308.00	
	M5529A	DC Power Module	\$585.20	
		Cadex (C7200 2-bay battery analyzer (Cadex ordering number 07-720-0011)	\$1035.65	
		Cadex (C7400 4-bay battery analyzer (Cadex ordering number 07-740-0031)	\$1921.15	
MRx Paper				
	40457C	50mm Chemical Thermal Gray Grid (10 rolls)	\$24.64	
	40457D	50mm Chemical Thermal Gray Grid (60 rolls)	\$135.52	
MRx Miscellaneous				
	M3725A	Test Load for use with M3508A Pad Gable	\$103.95	
	M3541A	Carrying Case (Includes 3 accessory pouches and shoulder strap)	\$250.25	
	M3545A	Data Card and Tray	\$76.23	
	M5528A	Vehicle Wall Mount	\$585.20	

⁶ Please also see attached sheet with items not indicated on this pricing form.

State of Oklahoma Solicitation Request for Bid Number SW60300

Quantity Discount for HeartStart MRX ALS Monitor - Device, Options and Upgrades

Prices shown apply to single orders of 11 or more units.

M3536A, HeartStart MRx ALS Monitor	\$ 6,475.00
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Options included at time of unit order only

Defibrillator Functionality Options - Select Only One

A01	SpO2	\$ 1,050.00
A02	SpO2 and NBP	\$ 3,150.00
A03	SpO2, NBP and etCO2	\$ 5,950.00
A04	ecCO2	\$ 2,800.00

Software Functionality Options

B01	Pacing	\$1,645.00
B02	12-lead ECG Acquisition	\$2,450.00
B03	12-lead transmission	\$ 700.00
B04	75 mm printer	\$ 350.00

Accessory Options

C02	Water resistant paddles kit	\$ 455.00
C03	Data card	\$ 62.30
C05	Lithium ion battery	\$ 227.50
C06	AC Power Module	\$ 262.50
C07	Barrel style cable	\$0.00
C15	5-lead cable with lead set (snap)	\$ 35.00

User Documentation Options

LP1	Instructions for use - hard copy of user instruction guide	\$0.00
LP2	User training video - includes 36 - min VHS/PAL user training video	\$ 17.50
LP3	User training DVD	\$0.00
LPK	Label set, AED/Energy select - label with emphasis on AED mode	\$0.00

Warranty Options

W01	One Year CE On Site Warranty	\$0.00
W22	Two-year bench with loaner warranty - alternative to On Site Warranty	\$0.00

Service Documentation Options

SM1	Service manual, English only	\$ 52.50
SM3	Service training video, English only	\$ 17.50

Training Options

MXU0015 A01	1 day EMS In-Service and Training	\$ 1,330.00
MXU0015 A02	Additional Day (>1) EMS In-Service and Training	\$ 1,050.00

Software

861276 A01	Event Review Pro 3.0	\$ 906.50
989803142521	12-Lead Transfer Station software application	\$ 766.50

Upgrade Options

M3530A	Upgrade to SpO2	\$ 1,225.00
M3531A	Upgrade to NPP - must have SpO2 on device	\$ 2,450.00

M3532A	Upgrade to etCO2 - must have SpO2 and NBP on device	\$ 3,500.00
M3533A	Upgrade to pacing	\$ 1,995.00
M3534A - opt B02	12-lead acquisition	\$ 2,450.00
M3534A - opt B03	12-lead transmission	\$ 700.00
M3534A - opt B04	75mm Printer	\$ 350.00
M5527A	External paddles upgrade (includes external paddle tray and upgrade instructions)	\$ 70.00
M5527A - opt C01	Standard external paddles	\$ 385.00
M5527A - opt C02	Water-resistant external paddles	\$ 455.00
M4760A	Handle and Cap Plate	\$ 43.40

State of Oklahoma Solicitation Request for Bid Number SW60300
Additional Options and Accessories for MRx not listed on State of Oklahoma pricing form
Prices shown apply to single orders of 10 or less units.

Training Options

MXU0015 A01 1 day EMS In-Service and Training	\$	1,520.00
MXU0015 A02 Additional Day (>1) EMS In-Service and Training	\$	1,200.00

Software

861276 A01 Event Review Pro 3.0	\$	1,036.00
989803142521 12-Lead Transfer Station software application	\$	876.00

STATE OF OKLAHOMA/NASPO CONTRACT PRICING-CONTRACT #SW50030

Philips Electronics North America Corporation, doing business as Philips Medical Systems
HeartStart FRx AED Defibrillator

0465-14-16 (To order, list part numbers, descriptions, prices and total under this commodity code)

861304 FRx Defibrillator, battery, SMART Pads II, Owner Manual, Quick reference Guide, Carrying Case \$1890.35 (please see attached for quantity discount)			EACH PRICE	QUAN DISCO
	Opt	HeartStart FRx Defibrillator Aviation Bundle		Please see attached.
	98980313811		\$1921.15	
	M5070A	Battery, Long Life LiMnO2 for HS1/FRx	\$101.25	N/a for
	989803139301	Aviation Battery (TSO C-142-U.S. only)	\$116.25	FRx accessories
	989803139261	SMART Pads II Adult (1 set)	\$36.75	
	989803139311	Infant/Child Key Pads (1 set)	\$60.00	
	69-PCHAT	Fast response Kit	\$30.75	
	989803139271	Training Pads II	\$56.25	
	M3834A	HeartStart Event Review Data management software (optional) License for one PC	\$296.25	
	R989803141811	HeartStart Event Review Data management software (optional) Organization-wide License (License for unlimited PCs)	\$746.25	
HeartStart FRx Training Materials and Learning Products				
	98903139321	FRx Training Toolkit (includes Powerpoint presentations, presenter's guide, student guide and training DVD)	\$36.75	
	989803139341	FRx Product Training DVD	\$11.25	
	989803138731	FRx Owner Manual	\$15.00	
	989803138601	FRx Quick Reference Guide	\$3.75	
	989803139271	Training Pads II	\$56.25	
	989803139291	Replacement Training Pads II (includes pads, wire and plug)	\$22.50	
	M5090A	Adult Pads Placement Guide	\$18.75	
	989803139281	Infant/Child Pads Placement Guide	\$18.75	
	M5089A	External Manikin Adapter, 10-pack	\$37.50	
HeartStart Event Review Software				
	ACT-IR	Infrared Data Cable	\$97.50	
	9899803143051	HeartStart Case Capture palmOne data download software	\$59.25	
	989803143041	HeartStart Case Configure palmOne configuration software	\$59.25	
HeartStart FRx Cases and Wall Mounts				
	989803136531	Defibrillator Cabinet, Basic	\$171.75	
	PFE7023D	Defibrillator Cabinet, Semi-recessed	\$318.75	
	PFE7024D	Defibrillator Cabinet, Wall Surface	\$299.25	

	M3857A	Wall Mount Bracket	\$66.75	
	M3858A	Defibrillator Wall Sign	\$24.00	
	M3859A	Secure-Pull Seal (10-pack)	\$7.50	
	989803133171	Temperature Control Carry Case	no bid	
	989803139251	Carrying Case, FRx Defibrillator	\$93.75	
HeartStart Essential AED Solutions				
	861309	HeartStart SmartTrack- Customer Program management (CPM)		
	Opt A01	Customer license for 1-10 AEDS SmartTrack CPM	\$371.25/year	
	Opt A02	Customer license for 11-50 AEDS SmartTrack CPM	\$26.25/AED/year	
	Opt A03	Customer license for 51-100 AEDS SmartTrack CPM	\$22.50/AED/year	
	Opt A04	Customer license for 101-199 AEDS SmartTrack CPM	\$18.75/AED/year	
	Opt A05	Customer license for 200+ AEDS SmartTrack CPM	\$2996.25	
	Opt A06	Distributor annual license fee, unlimited access	\$746.25	
ADD ADDITIONAL ITEMS HERE (ATTACH ADDITIONAL PAGES AS NECESSARY)				
	-5-10000	HeartStart Pads Adapter (QUICK COMBO)	\$22.50	
	05-10100	HeartStart Pads Adapter (Zoll)	\$22.50	
	05-10200	HeartStart Pads Adapter (Barrel-style)	\$22.50	

FRx Defibrillator includes 5-year manufacturer's warranty at no charge. Battery includes 4-year warranty. Other accessories include a 1-year warranty.

Device follows preconfigured settings. Defibrillation and CPR protocol can be customized using HeartStart Ever Review or HeartStart Configure Software User interface. Instructions Detailed voice prompts and visual icons guide responder through use of the defibrillator CPR Coaching Voice Coaching for adult and infant/child CPR provide instructions and audio cues for each breath, as well as the appropriate number, rate and depth of chest compressions. Controls Green on/off button, blue i-button, orange shock button, optional infant/child key Indicators Ready light blue i-button, caution light, illuminated pads, icons, shock button lights up when shock is advised.

State of Oklahoma Solicitation Request for Bid Number SW60300
Quantity Discount for HeartStart FRx Defibrillator

Prices shown apply to single orders of 76-149 units.

861304 FRx Defibrillator	\$ 1,718.50
Opt 989803138311 Aviation Bundle	\$ 1,732.50

Prices shown apply to single orders of 150 or more units.

861304 FRx Defibrillator	\$ 1,595.75
Opt 989803138311 Aviation Bundle	\$ 1,608.75

Both options include Defibrillator, 2 sets adult SMART Pads II, Fast Response Kit,
1 set infant/child SMART pads II, owner manual, Quick Reference Guide, Carrying Case,
Infrared Data Cable for data transfer

**STATE OF OKLAHOMA/NASPO CONTRACT PRICING-CONTRACT
#SW50030:**

Philips Electronics North America Corporation, doing business as Philips Medical Systems
HeartStart FR2+ Defibrillator and Accessories

0465-14-17 (To order, list part numbers, descriptions, prices and total under this commodity code)

HeartStart FR2+ Defibrillator and Accessories				
REF	DESCRIPTION	EACH COST	QUANTITY DISCOUNT	
M3861A	HeartStart FR2+ AED Defibrillator, without ECG, Battery 2 pairs of adults pads and quick reference card, Standard carrying case	\$2072.00	\$	Please see attached.
M3860A	HeartStart FR2+ AED Defibrillator, with ECG, Battery 2 pairs of adults pads and quick reference card, Standard carrying case	\$2492.00	\$	
DP2	HeartStart FR2+ AED Adult Defibrillator Pads (2-pack)	\$51.75	\$	N/a for
DP6	HeartStart AED Adult Defibrillator Pads (6-pack)	\$134.25	\$	accessories
M5073A	Adult SMART Pads Cartridge (1 set)	no bid		
M5072A	Infant/Child SMART PADS Cartridge (1set)	no bid		
M3870A	FR2 AED Infant/Child Defibrillator Pads (1-pack)	\$63.75	\$	
M5070A	HeartStart 4-year battery	no bid		
M3863A	Battery, Long-Life LiMnO2, for FR2 Series	\$168.75	\$	
M3848A	Battery, Rechargeable Li Ion for FR2+*	\$198.75	\$	
M3849A	Charger for FR2+ Rechargeable Battery (M3848A)	\$112.50	\$	
68-PCHAT	Fast Response Kit	\$30.75	\$	
M3873A	FR2+ ECG Assessment Module, AAMI*	\$225.00	\$	

* FR2s shipped prior to 11/12/01 need a software upgrade to use this feature (Products M3848A & M3873A)
FR2+Cards

REF	DESCRIPTION	EACH COST	QUANTITY DISCOUNT
M3854A	Data Card and Tray for FR2 Series	\$66.75	\$
M3853A	Data Card Tray for FR2 Series,	\$6.75	\$
SDCF-05	Data Card Adapter to PCMCIA	\$22.50	\$
M3524A	Data Card Reader	\$112.50	\$

FR2+Cases/Wall Mount

REF	DESCRIPTION	EACH COST	QUANTITY DISCOUNT
989803136531	Defibrillator Cabinet, Basic	\$171.75	\$
PFE7023D	Defibrillator Cabinet, Semi-recessed	\$318.75	\$
PFE7024D	Defibrillator Cabinet, Wall Surface mount	\$299.25	\$
M3868A	Standard Carrying Case for FR2 Series	\$93.75	\$
M3869A	Vinyl Carrying Case for FR2 Series	\$93.75	\$
M3857A	Wall Mount Bracket	\$66.75	\$
M3858A	Defibrillator Wall Sign	\$24.00	\$
M3859A	Secure-Pull Seal (10-pack)	\$7.50	\$
YC	Carrying Case, Plastic Waterproof Shell	\$150.00	\$
989803133171	Temperature Control Carry Case	\$285.00	\$

FR2+ Cross-Product Compatibility

REF	DESCRIPTION	EACH COST	QUANTITY DISCOUNT
05-10000	HeartStart Pads Adapter (QUIK-COMBO™)	\$22.50	\$
05-10100	HeartStart Pads Adapter (Zoll™)	\$22.50	\$
05-10200	HeartStart Pads Adapter (Barrel-style)	\$22.50	\$

Event Review Software

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REF		DESCRIPTION		
	M3834A	Event Review (license for 1 PC)	\$296.25	\$
	861276 A01	Event Review 3.0	\$971.25	\$
REF	FR2+ Training Materials		EACH	QUANTITY
	DESCRIPTION		PRICE	DISCOUNT
	M3860-91900	Instructions for Use, FR2+, English	\$ 15.00	\$
	M5090A	Adult Pad Placement Guide	no bid	
	M5073A	Adult Training Pads Cartridge	no bid	
	M5074A	Infant/Child Training Pads Cartridge	no bid	
	M3860-97800	Quick Reference Card, FR2, English	\$ 3.75	\$
	M3864A	Training & Admin Pack for FR2	\$ 150.00	\$
	M3855A	Charger for FR2 Training & Admin. Pack (includes US power cord)	\$ 93.75	\$
	M5066-89100	Training Toolkit -Ref. Guide for Training & Admin Pack, FR2 Series	\$ see below item	\$
	M5066-89100	HeartStart HS1 & FR2+ Toolkit, NTSC	\$ 36.75	\$
	M3752A	HeartStart AED Trainer 2 (Includes Carrying Case, 1 set of Defibrillator Training Pads)	\$ 243.75	\$
	M3753A	Remote Control for AED Trainer 2	\$ 36.75	\$
	M3754A	Programming Kit for AED Trainer 2 (includes PC Cable and CD with software)	\$ 22.50	\$
			\$	\$
	07-10900	Defibrillator Training Pads: 1 set	\$18.75	
	07-11000	Defibrillator Trainer Carrying Case	\$ 18.75	\$
	M3871A	FR2 Series Infant/Child Training Pads	\$ 33.75	\$
	M3755A	Training Pads for AED Little Anne - 1 set	\$ 20.25	\$
	M3756A	AED Little Anne Training System	\$ 434.25	\$

*Please note: items marked "no bid" are not compatible with the HeartStart FR2+ Defibrillator, but are compatible with the HeartStart FRx and/or OnSite Defibrillators and have been priced on the appropriate forms.

State of Oklahoma Solicitation Request for Bid Number SW60300
Quantity Discount for HeartStart FR2 Defibrillator

Prices shown apply to single orders of 76-149 units.

M3861A HeartStart FR2 Defibrillator, without ECG	\$ 1,983.20
M3860A HeartStart FR2 Defibrillator, with ECG	\$ 2,385.20

Prices shown apply to single orders of 150 or more units.

M3861A HeartStart FR2 Defibrillator, without ECG	\$ 1,924.00
M3860A HeartStart FR2 Defibrillator, with ECG	\$ 2,314.00

Both options include Defibrillator, 2 pairs adult pads, 1 pair infant/child pads,
owner manual, Quick Reference Guide, Carrying Case, Fast Response Kit, data card

STATE OF OKLAHOMA/NASPO CONTRACT PRICING-CONTRACT

#SW50030

Philips Electronics North America Corporation, doing business as Philips Medical Systems

HeartStart OnSite HS1 Defibrillator and Accessories

0465-14-07 (To order, list part numbers, descriptions, prices and total under this commodity code)

M5066A-ABA HS1 OnSite Defibrillator, one battery, 1 SMART pads Cartridge, Quick Start Poster, Quick Reference Guide, and Owners Manual * select case below (required)		EACH PRICE	QUANTITY DISCOUNT
		\$ 1499.25	\$ Please see attached
HeartStart OnSite Defibrillator Accessories			
REF	DESCRIPTION	EACH PRICE	QUANTITY DISCOUNT
M5070A	Battery for HeartStart Defibrillator HS1	\$ 101.25	\$ N/a for
M5071A	Adult SMART Pads Cartridge, HS1	\$ 36.75	\$ accessories
M5072A	Infant/Child SMART Pads Cartridge, HS1	\$ 63.75	\$
68-PCHAT	Fast Response Kit	\$ 30.75	\$
HeartStart OnSite Cases and Wall Mounts			
REF	DESCRIPTION	EACH PRICE	QUANTITY DISCOUNT
* CO1	HS1 OnSite Standard Carry Case	\$74.25	\$
*CO2	HS1 OnSite Slim Carry Case	\$26.25	
989803136531	Defibrillator Cabinet, Basic	\$171.75	\$
PFE7023D	Defibrillator Cabinet, Semi-recessed	\$318.75	\$
PFE7024D	Defibrillator Cabinet, Wall Surface	\$299.25	\$
M3857A	Wall Mount Bracket	\$66.75	\$
M3858A	Defibrillator Wall Sign	\$24.00	\$
M3859A	Secure Pull Seal, 10-pack	\$7.50	\$
M5075A	Standard Carry Case for HeartStart HS1	\$93.75	\$
M5076A	Slim Carry Case for HeartStart HS1	\$74.25	\$
HeartStart OnSite Training Materials and Learning Products			
REF	DESCRIPTION	EACH PRICE	QUANTITY DISCOUNT
M5066-89100	HeartStart HS1 and FR2 Toolkit, NTSC	\$ 36.75	\$
M5066-91900	Instructions for Use, HeartStart OnSite Defibrillator	\$ 15.00	\$
M5066-97800	Quick Reference, HeartStart HS1	\$ 3.75	\$
M5073A	Adult Training Pads Cartridge, HS1	\$ 56.25	\$
M5074A	Infant/Child Training Pads Cartridge, HS1	\$ 60.00	\$
M5085A	HeartStart Trainer	\$ 221.25	\$
M5085-91900	Instructions for Use, HeartStart Trainer	\$ 7.50	\$
M5087A	Replacement Carry Case, HeartStart Trainer	\$18.75	\$
M5088A	Internal Manikin Adapter	\$ 22.50	\$
M5089A	External Manikin Adapter, 10-pack	\$ 37.50	\$
M5093A	Replacement Pads, Adult Training	\$ 22.50	\$
M5094A	Replacement Pads, Infant/Child Training	\$ 22.50	\$
HeartStart OnSite Event Review Software			
REF	DESCRIPTION	EACH PRICE	QUANTITY DISCOUNT
M3834A	HeartStart Event Review 3.0 Defibrillator Software	\$296.25	\$
ACT-IR	Infrared Data Cable for HeartStart OnSite Defibrillators	\$97.50	\$
861276 A01	Event Review Pro 3.0	\$971.25	\$
ADD ADDITIONAL ITEMS HERE			

*Options CO1 and CO2 available at time of defibrillator purchase only.

State of Oklahoma Solicitation Request for Bid Number SW60300
Quantity Discount for HeartStart OnSite Defibrillator

Prices shown apply to single orders of 76-149 units.
M5066A OnSite Defibrillator \$ 1,399.30

Prices shown apply to single orders of 150 or more units.
M5066A OnSite Defibrillator \$ 1,299.35

Both options include Defibrillator, 2 sets adult SMART Pads II, Fast Response Kit,
1 set infant/child SMART pads II, owner manual, Quick Reference Guide, Carrying Case,
Infrared Data Cable for data transfer

PHILIPS

HEARTSTART MRx

WARRANTY OPTIONS FOR THE HEARTSTART MRx



SERVICE AND TECHNICAL EXPERTISE

To ensure that you receive prompt and effective service, Philips offers a variety of warranties and plans for repairing and maintaining your monitor/defibrillator.

STANDARD WARRANTY

The standard coverage worldwide for HeartStart MRx (M3535A and M3536A) is a 1-year on-site warranty. Service requests are managed by technical specialists in our Medical Response Center who will help you diagnose and, in some cases, resolve problems over the phone. Problems that cannot be corrected by phone are forwarded to a Philips authorized field service representative, who will repair MRx at your location.

For HeartStart MRx customers in Australia, Canada, New Zealand and the United States, we have optional warranty programs.

OPTIONAL WARRANTIES

U.S. & Canada

W24 – Bench Warranty for M3535A

If you prefer a longer initial warranty period, you may substitute the optional 5-year bench (repair and return) warranty for the standard 1-year on-site warranty. With bench coverage, you receive the same level of service from our

Medical Response Center. And, if the technical specialist is unable to resolve a problem by phone, your MRx is sent to Philips for diagnosis and repair. If needed, you'll have the use of a loaner until your monitor/defibrillator is returned to you.

WA1 – Biomedical Warranty for M3535A

If your facility (hospital or clinic) has an in-house biomedical/clinical engineering department, you might choose our 5-year biomedical warranty. This is an 'alliance' by which your in-house biomedical engineers repair and maintain HeartStart MRx, while replacement parts and instructions are supplied by Philips. As with the other warranties, our Medical Response Center provides troubleshooting and technical assistance by phone to help with diagnosis and repair. This warranty is available for qualified facilities only.

W22 – Bench Warranty for M3536A

If you are an EMS customer and prefer a longer initial warranty period, you can substitute the 2-year bench (repair and return) warranty for the standard 1-year on-site warranty. With this coverage, you'll receive the same level of service from our Medical Response Center. When the technical specialist is unable to resolve a

problem by phone, your MRx is sent to Philips for diagnosis and repair. If needed, you'll have the use of a loaner until your monitor/defibrillator is returned to you.

Australia and New Zealand

W08 – Bench Warranty for M3535A

If you prefer longer initial coverage, you can choose the optional 3-year bench (repair and return) warranty. You'll receive the same service from our Medical Response Center. And, if a technical specialist is unable to resolve the problem with MRx by phone, the unit is sent to Philips for diagnosis and repair. If needed, you'll have the use of a loaner until your monitor/defibrillator is returned to you.

WA1 – Biomedical Warranty for M3535A

In Australia only, HeartStart MRx M3535A customers with in-house biomedical/clinical engineering services may opt for a 5-year biomedical warranty. Product repair is done by an in-house biomedical engineer, with training and repair parts supplied by Philips. As with all our warranties, Philips Medical Response Center provides troubleshooting and technical assistance by phone to help with diagnosis and repair. This warranty is available for qualified facilities only.



PHILIPS

HEARTSTART MRx

WARRANTY EXTENSION AND PREVENTATIVE MAINTENANCE

All warranties, standard and optional, for HeartStart MRx can be extended through service contracts, available at the time of product purchase. Preventative maintenance service contracts are available for units equipped with noninvasive blood pressure and end-tidal CO₂ monitoring.

Your Philips representative can help you select the appropriate coverage for your specific needs.

PHILIPS MEDICAL SYSTEMS IS PART OF ROYAL PHILIPS ELECTRONICS

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September 2003



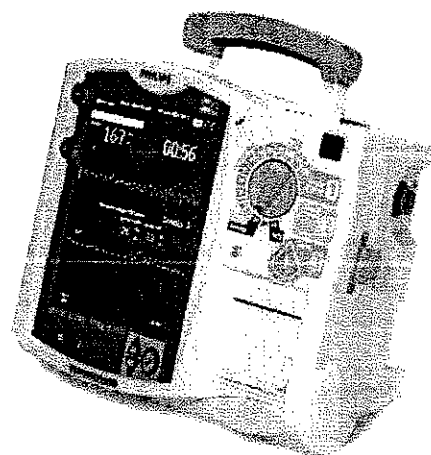
POWER TO SAVE A LIFE

HEARTSTART

MRx ALS MONITOR



HEARTSTART MRx
ALS MONITOR



PHILIPS

HeartStart MRx has the capabilities you need and the performance you demand for rapid intervention, thorough care and positive patient outcomes. That's the big picture.

MONITORING CAPABILITIES

- ▶ Monitoring through defibrillation pads
- ▶ 3- and 5-Lead ECG monitoring through electrodes
- ▶ ST/AR Basic™ arrhythmia detection
- ▶ FAST-SpO₂ (Fourier Artifact Suppression Technology), optional
- ▶ Noninvasive Blood Pressure (NBP), optional
- ▶ Microstream® Capnography (etCO₂), optional
- ▶ 12-Lead ECG, optional

THERAPIES

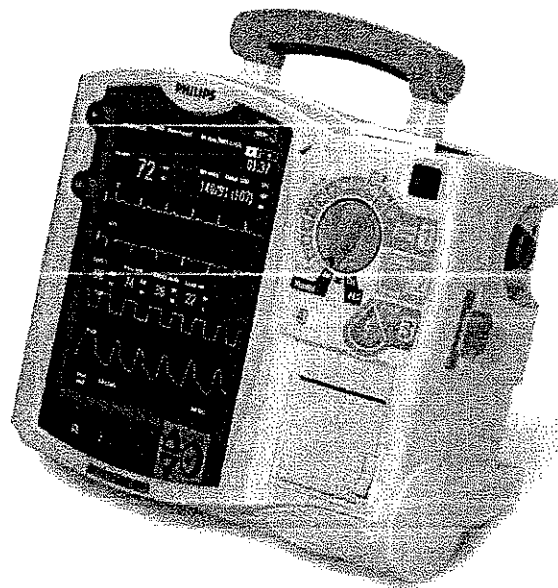
- ▶ SMART Biphasic waveform
- ▶ Manual mode with shock delivery through defibrillation pads or paddles
- ▶ AED mode
- ▶ Synchronized cardioversion
- ▶ Noninvasive pacing, optional

FEATURES

- ▶ Adjustable ECG size and autogain
- ▶ 8.4 inch (diag.), 4-wave color display, largest in its class
- ▶ Data collection and event summary
- ▶ Strip chart printer
- ▶ Automated self-tests
- ▶ Operational checks
- ▶ Individual, adjustable volume of QRS beeper, voice prompts, and alerts
- ▶ Lithium ion battery (2 bays) with capacity gauge
- ▶ AC and DC power modules
- ▶ "Ready-for-Use" indicator
- ▶ Configuration mode
- ▶ Diagnostic mode
- ▶ Carrying Case
- ▶ Bed rail hook

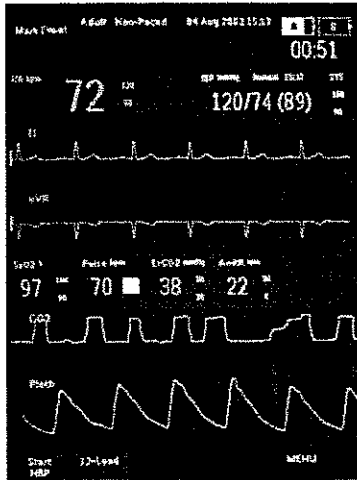
All of these measurements, therapies and features, plus its compact size, low weight (13.2 pounds), and balanced shape make HeartStart MRx easy to carry, easy to stow, and above all, easy to operate.

- ▶ Thoughtfully organized controls and ports clearly separate functions, monitoring from therapeutic and lifesaving.
- ▶ Monitoring starts once a patient cable is connected to the device.
- ▶ Monitoring and therapy data are clearly and logically arranged on-screen.
- ▶ Large numeric measurements, waveforms, and alarm indicators enable the user to quickly locate information.
- ▶ The appearance of measurements and waveforms can be customized, and the screen organized to the user's preferences.
- ▶ On-screen menus simplify navigation for configuring data, setting and responding to alarms, and accessing additional functionality.

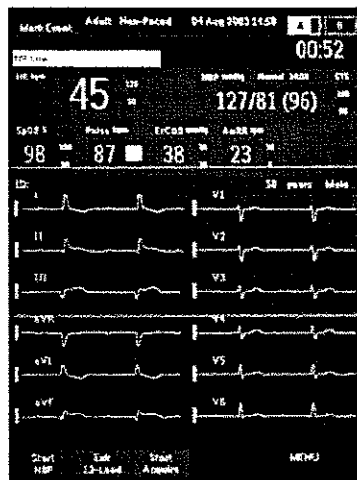


HEARTSTART MRx
ALS MONITOR

Superior Measurements



A typical monitoring view shows some basic patient information, the date, time and battery status. Next are the numerics and waveforms. The bottom half of the screen shows additional monitoring numerics followed by their waveforms, and soft keys for customizing the display, setting and responding to alarms, and scrolling through screens to view additional monitoring data.



In 12-lead preview mode, 12 waves are viewable on-screen, in addition to numeric vital sign values. All waves print on the strip chart printer in 3x4 format.

Arrhythmia Monitoring

- ▶ Philips' ST/AR Basic arrhythmia algorithm.
- ▶ Analyzes ECGs for heart rate, while continuously monitoring for ventricular arrhythmias.
- ▶ Detects 10 rhythm disturbances and irregularities, including 5 life-threatening arrhythmias: asystole, ventricular fibrillation, ventricular tachycardia, extreme bradycardia, and extreme tachycardia.
- ▶ Generates visible and audible alarms as needed.

SpO₂ with Fourier Artifact Suppression Technology (FAST-SpO₂)

- ▶ Low-noise hardware and patented digital processing to prevent false readings, drop-outs and false alarms in the presence of motion and other interferences.
- ▶ Applies rule-based analysis to technical and physiological criteria and quality indicators to generate the Fourier spectrum.
- ▶ Measures reliably even in the presence of low peripheral perfusion.

Noninvasive Blood Pressure (NBP)

- ▶ ADVANTAGE® oscillometric, motion-tolerant, noninvasive blood pressure system from SunTech Medical Instruments.
- ▶ Measures systolic and diastolic pressure and calculates mean arterial pressure.



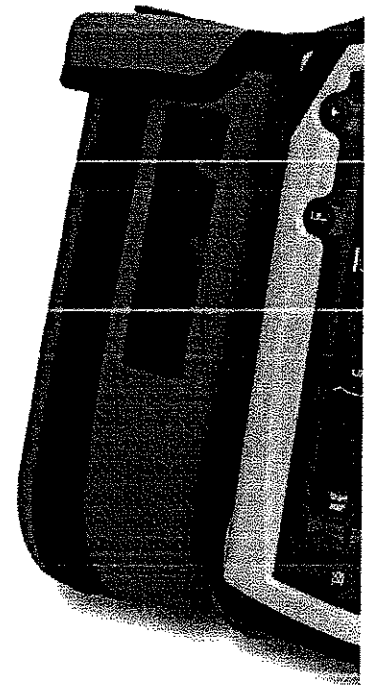
All monitoring connections are located in one place, the left side panel. A carrying case pouch covers and protects ports and cable connectors from damage caused by external forces.

Microstream® Capnography (etCO₂)

- ▶ Microstream® CO₂ technology from Oridion Medical.
- ▶ No zeroing, no heating and no sensor to interfere with the patient's airway.
- ▶ Microstream's FilterLine® airway adapter and sample line inhibit the build-up of condensed water and secretions.
- ▶ Works on both intubated and nonintubated patients, adult and pediatric.

Philips 12-Lead ECG

- ▶ Philips' 12-Lead ECG algorithm.
- ▶ Removes noise and artifact before generating interpretive statements.
- ▶ Detects and stratifies early acute coronary syndromes, for patients with symptoms of ST-segment elevation acute myocardial infarction (STEMI).
- ▶ 12-Lead ECG algorithm employs its Pediatric Criteria Program, which recognizes 12 distinct age groups for patients under the age of 16.



In code view, a single ECG wave is shown in the top half of the screen, the incident timer is larger and alarms are paused.

Proven Therapies

SMART Biphasic Technology

- ▶ Philips' patented low-energy SMART Biphasic (truncated exponential) waveform. No other external defibrillation waveform is supported by more peer-reviewed clinical data.
- ▶ Impedance compensation algorithm measures chest impedance and delivers a low-energy shock based on the patient's unique physical requirements.

AED Mode

- ▶ Clear, concise voice and text prompts, like those of our industry leading automated external defibrillators, guide the user through the defibrillation process.
- ▶ Preset 150 Joules of non-escalating energy.

Manual Defibrillation

- ▶ Charges to its highest energy level, 200 Joules, in less than 5 seconds.
- ▶ Defibrillates with either paddles or pads.

Synchronized Cardioversion

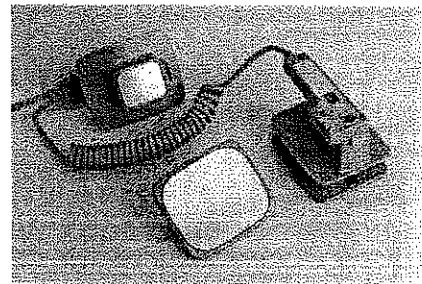
- ▶ Philips' SMART Biphasic waveform has undergone clinical testing, and peer-reviewed evidence supports its effectiveness in cardioverting atrial fibrillation.
- ▶ On-screen, R-wave markers are shown above (or on) each detected R-wave.

Noninvasive Pacing

- ▶ Demand and fixed modes.
- ▶ 40 msec pulse width.
- ▶ Adjustable rate and output (mA).

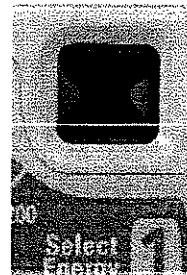
HeartStart MRx can be equipped with a set of anterior/anterior, water resistant, external paddles for adult and pediatric use. They convert from adult to pediatric by removing the outer contacts.

Sensors in the external paddles' electrodes assess paddle-to-patient contact and display their readings in the Patient Contact Indicator (PCI) located on the sternum paddle's handle.



If pads are preferred, HeartStart MRx can be used with Philips HeartStart Multifunction Defibrillator Pads, which come in adult and pediatric sizes.

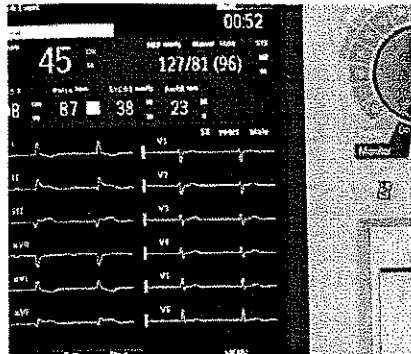
When connected to MRx, they can provide ECG monitoring, synchronized cardioversion, and noninvasive pacing, in addition to external defibrillation.



A flashing hourglass in the "Ready-for-Use" indicator window signals that HeartStart MRx has ample battery power to monitor and deliver a shock. When battery power is low, ECG capability is compromised, or MRx detects that it cannot pace or shock, a red "X" replaces the hourglass and the monitor will audibly chirp until the situation is corrected.

HeartStart MRx inherits its uncomplicated 1-2-3 manual operation from our popular CodeMaster defibrillators. Therapies – defibrillation, synchronized cardioversion, and pacing – are activated using the therapy knob and surrounding keys. For manual defibrillation, energy is selected (1) using the therapy knob. With the press of a button (2), MRx charges. Pressing the shock button (3), MRx delivers defibrillation therapy.

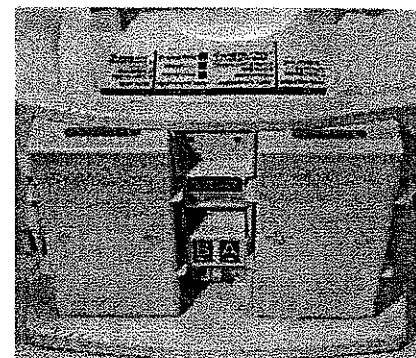
Rugged, reliable, and ready for use



The 8.4-inch color display is well protected against damage. Recessed behind a 3-millimeter non-reflective polycarbonate shield, framed and backed in an energy-absorbing foam blanket, and supported by a rigid magnesium casting, it endures routine impact from bumps, knocks, and even drops.



Internal assemblies are rugged. Latched connectors hold cables in place to ensure uninterrupted communications between circuit boards. And every circuit board is aggressively reinforced, braced and fastened at multiple points, keeping the device's internal structure rigid, even in high vibration environments.



Two rechargeable, lithium ion batteries, when new and fully charged, provide up to 10 hours of monitoring, more than any other monitor/defibrillator. Depleted batteries can be charged to full capacity in just 3 hours. No conditioning is required. Capacity gauges on the monitor's screen and on each battery pack show the remaining charge.

Feature-packed and still lightweight

For all its monitoring capabilities, therapies, and features, **HeartStart MRx is surprisingly lightweight, 13.2 pounds. Measuring 12.4 x 7.7 x 11.7 inches, it's easy to carry and hooks securely to a standard stretcher.**

Self-tests and operational checks

- ▶ Ready-for-Use indicator.
- ▶ Automated hourly, daily and weekly self-tests.
- ▶ Easy-to-run routine operational checks.
- ▶ Test results are stored in internal memory and can be viewed on-screen and printed with the strip chart printer.

Strip chart printer

- ▶ Integrated 50 mm strip chart printer.
- ▶ Prints the primary ECG lead with event annotations and event summary reports, including ECG rhythm strips and 12-lead ECG reports.
- ▶ When configured, prints automatically on marked events, charge, shock and alarms.
- ▶ Prints measurements in real-time or with a 10-second delay.

Data collection, management and reporting

- ▶ Internal memory and an optional, removable CompactFlash® data card capture approximately 8 hours of continuous ECG waveforms and events (including drug and therapy markers), plus 50 12-lead ECG reports.
- ▶ Stored data can be printed as an event summary report on the device's strip chart printer or viewed on-screen.
- ▶ Data transferred to a PC running HeartStart Event Review Pro data management software can be compiled, edited, shared and archived for quality control and reporting.
- ▶ HeartStart MRx can accept a data card from Heartstream and HeartStart FR2-series AEDs.

Carrying Case

- ▶ Constructed of durable, semi-rigid foam covered in polyester.
- ▶ Modular pouches for segmenting and organizing accessories and supplies.
- ▶ Pouches snap on and can be easily removed for thorough cleaning.

Quick Reference Cards

- ▶ Highlight device's key functionality and operation.
- ▶ Laminated to resist wear and stains, the card set can be tethered to HeartStart MRx or stored in its carrying case.

Training materials

- ▶ 90-minute, self-paced, web-based training program familiarizes the user with the features and operation of HeartStart MRx.
- ▶ Students explore components and accessories, run simulations of hands-on procedures, and test their understanding of the material.
- ▶ Continuing education credit is available for completing the program.
- ▶ Optional 30-minute, video-based training program.

Specifications

Physical

Dimensions	Without external paddles: 12.4 in. (W) x 7.7 in. (D) x 11.7 in. (H) (313 mm x 195 mm x 295 mm) With external paddles: 12.4 in. (W) x 7.7 in. (D) x 13.4 in. (H) (313 mm x 195 mm x 340 mm)
Weight	13.2 lbs. (6 kg): base unit with 1 battery, pads and pads cable. Paddle tray and external standard paddles add less than 2.5 lbs. (1.1 kg). Carrying case adds 4.1 lbs. (1.86 kg)

Environmental and Physical Requirements

Solids/Water Resistance	IP24
Temperature	Operating: 32° - 113° F (0° - 45° C) Storage: -4° - 158° F (-20° - 70° C)
Humidity	Operating: 0% to 95% relative
Altitude	Operating: 0 to 15,000 ft (0 to 4,500 m) Storage: 0 to 15,000 ft (0 to 4,500 m)
Mechanical Shock	Bump: IEC 68-2-29 Freefall: IEC 68-2-32
Vibration	Operating: MIL STD 810E 514.4 Category 6 Helicopter, General Storage, UH60 Non-Operating: IEC 68-2-6 Swept Sine Vibration and IEC 68-2-64 Random Vibration
Safety	Meets EN 60601-1, UL 2601-1, CSA C22.2 No. 601-1

Display

Dimensions	8.4" diagonal (128 mm x 171 mm)
Type	TFT color LCD
Resolution	480 x 640 pixels (VGA)
Wave Viewing Time	5 seconds (ECG)

Defibrillator

Defibrillator Model	HeartStart MRx (M3536A)
Waveform	Truncated Exponential Biphasic. Waveform parameters adjusted as a function of patient impedance.
Output Energy	Manual (selected): 1-10, 15, 20, 30, 50, 70, 100, 120, 150, 170, 200 Joules into a 50 Ohm load AED Mode (single energy output): 150 Joules into a 50 ohm load.
Charge Time	Less than 5 seconds to 200 Joules with a new, fully charged lithium ion battery at 25° C
Shock Delivery	Via multifunction defib electrode pads or paddles
Shock-to-Shock Cycle Time	Typically less than 20 seconds
Patient Impedance Range	Minimum: 15 Ohm (internal defibrillation); 25 Ohm (external defibrillation) Maximum: 180 Ohm
AED Mode	Shock advisory sensitivity and specificity meet AAMI DF-39 guidelines

Noninvasive Pacing

Waveform	Monophasic Truncated Exponential
Current Pulse Amplitude	10 mA to 160 mA (5 mA resolution); accuracy 10 mA to 50 mA ± 5 mA, 50 mA - 160 mA ± 10%
Pulse Width	40 ms with ± 10% accuracy
Rate	30 ppm to 180 ppm (10 ppm increments); accuracy ± 1.5%
Modes	Demand or Fixed Rate
Refractory Period	340 msec (30 to 80 ppm); 240 msec (90 to 180 ppm)

Data Storage

Internal	8 hours of continuous ECG waveforms and events, plus 50 12-lead ECG reports
Data Card	8 hours of continuous ECG waveforms and events, plus 50 12-lead ECG reports, on a Compact Flash Memory Card

Battery

Type	6.3 Ah, 14.8 V, rechargeable lithium ion
Dimensions	6.5" (H) x 3.8" (W) x 1.6" (D) (165 mm x 95 mm x 42 mm)
Weight	1.6 lb. (0.73 kg)
Charge Time	Approximately 3 hours to 100%, 90 minutes to 80%
Capacity	At least 5 hours of continuous 12-lead ECG, SpO ₂ , and CO ₂ monitoring, with NBP every 15 minutes on a new, fully charged battery At least 3.5 hours of continuous 12-lead ECG, SpO ₂ , and CO ₂ monitoring, with NBP every 15 minutes and pacing at 180 ppm at 160 mA on a new, fully charged battery
Battery Indicators	Battery gauge on battery; capacity indicator on display; flashing RFU indicator, chirp, and 'Low Battery' message appears on display for low battery condition, when 10 minutes of monitoring time and 6 maximum energy discharges remain (with a new battery at room temperature, 25° C)

ECG and Arrhythmia Monitoring

Input	Up to 4 ECG waves displayed and up to 2 ECG waves print simultaneously Lead I, II, or III obtained through 3-lead ECG cable and separate monitoring electrodes. With 5-lead cable, obtain leads aVR, aVL, aVF, or V. Pads ECG obtained through 2 multifunction defibrillation electrode pads.
Lead Fault	'Lead Off' message and dashed line displayed, if an electrode or lead wire becomes disconnected
Pads Fault	Dashed line displayed if a pad becomes disconnected.
Heart Rate Display	Digital readout on display 15 to 300 bpm, accuracy ±10%
Heart Rate/Arrhythmia Alarms	HR, Asystole, VFIB/VTACH, VTACH, extreme tachycardia, extreme bradycardia, PVC rate
ECG Size	2.5, 5, 10, 20, 40 mm/mV, autogain

SpO₂ Pulse Oximetry

Range	0 to 100%
Resolution	1%
Alarm Range	Low Limit: 50 to 99% (Adult/Pediatric) High Limit: 51 to 100% (Adult/Pediatric)
Alarm Delay	10 seconds

Noninvasive Blood Pressure

Pressure Range	Systolic: 40 to 260 mmHg Diastolic: 20 to 200 mmHg
Initial Pressure	Adult: 160 mmHg Pediatric: 120 mmHg
Maximum Pressure	280 mmHg
Alarm Range	Systolic high limit: 30 - 270 (Adult), 35 - 180 (Pediatric) Systolic low limit: 30 - 265 (Adult), 30 - 175 (Pediatric) Diastolic high limit: 18 - 240 (Adult), 18 - 150 (Pediatric) Diastolic low limit: 10 - 240 (Adult), 10 - 145 (Pediatric)

End-Tidal CO₂

Range	0 to 99 mmHg
Resolution	1 mmHg (0.1 kPa)
Sample Size	50 ml per minute
Alarm Range	Low Limit: 10 to 95 mmHg (Adult/Pediatric) High Limit: 20 to 100 mmHg (Adult/Pediatric)

12-Lead ECG

Input	12-Lead cable: leads I, II, III, aVR, aVL, aVF, V1-C1-V6
Display View	All 12-lead ECG waves display simultaneously
Strip Record	All 12-leads print on the strip chart printer in 3x4 format

Strip Chart Recorder

Continuous ECG Strip	Prints primary ECG lead with event annotations and measurements in real-time or with 10-second delay
Auto Printing	Recorder can be configured to print marked events, charge, shock and alarms
Reports	Event Summary, 12-Lead, Operational Check, Configuration, Status Log, and Device Information
Paper Size	50 mm (1.97 in.) W by 30 m (100 ft.) L

POWER TO SAVE A LIFE

HEARTSTART

MRx ALS MONITOR

Built to Perform and Backed by Philips

Our dedication to excellence in design, manufacturing and customer support makes us a trusted supplier of patient monitors and defibrillators, serving the healthcare community for more than 35 years. HeartStart MRx is part of our cardiac resuscitation family of products, which includes ALS defibrillator/monitors and automated external defibrillators used in private and public environments. Each is tailored to the needs and skills of a particular type of user, extending the reach of care from the home to the hospital.

Warranties, services, and support

So that our HeartStart MRx customers continue delivering reliable and effective patient care, we provide a variety of warranty offerings and preventative maintenance programs.

Philips backs HeartStart MRx with one year of on-site service. On-site service, requested through our Medical Response Center, is provided by an authorized Philips service representative.

At the time of purchase, a 2-year repair and return warranty can be substituted for the standard 1-year on-site service warranty.

To extend the coverage period of either warranty, service contracts can be purchased annually in 1-year increments (without limit).

Philips Medical Supplies

Philips is committed to producing and supporting the finest quality medical equipment and supplies. Our supplies are thoughtfully designed, tested and manufactured to deliver reliable and accurate results from your HeartStart MRx. For a complete list of supplies, please visit <http://shop.medical.philips.com>.

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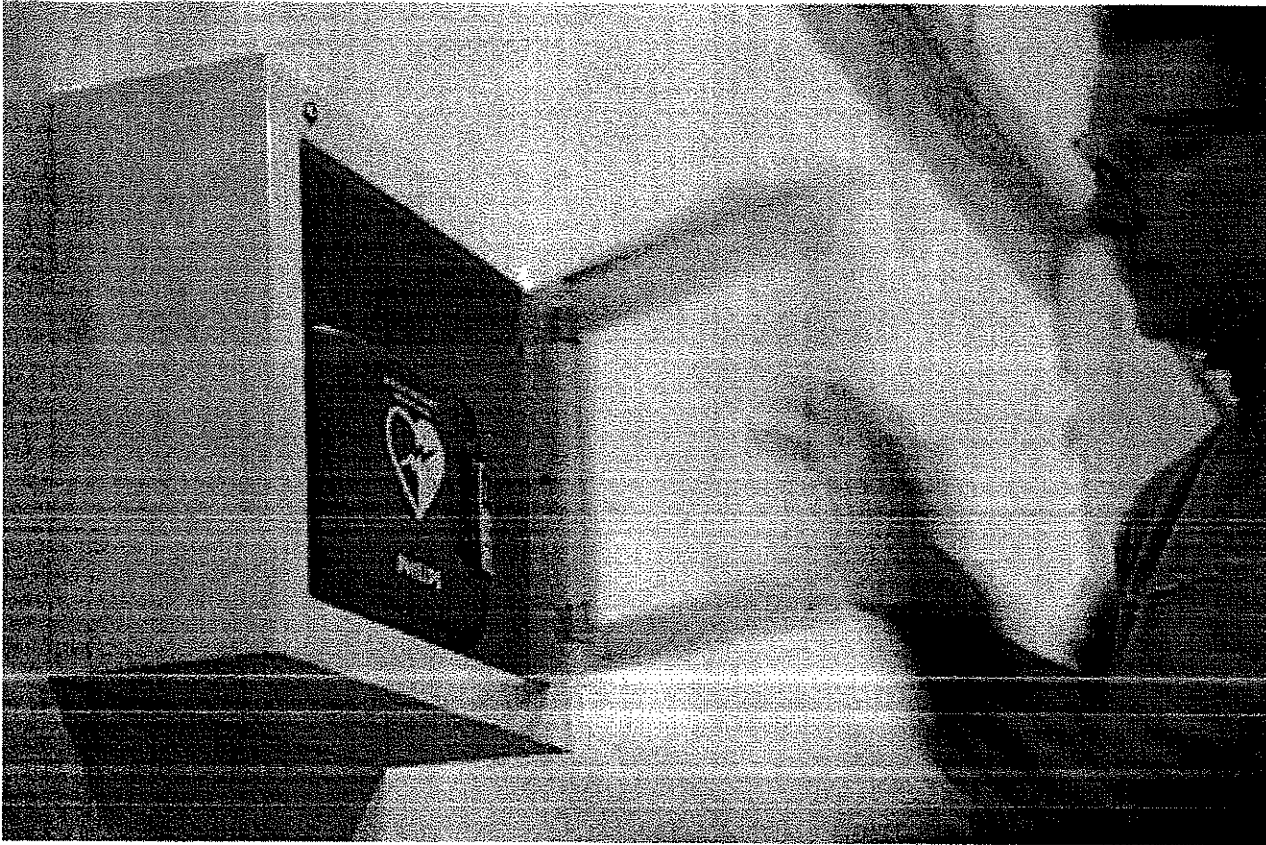
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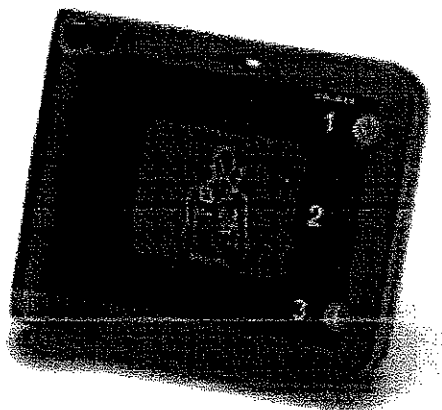
ADVANTAGE is a registered trademark of SunTech Medical Instruments.

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For those who get there first

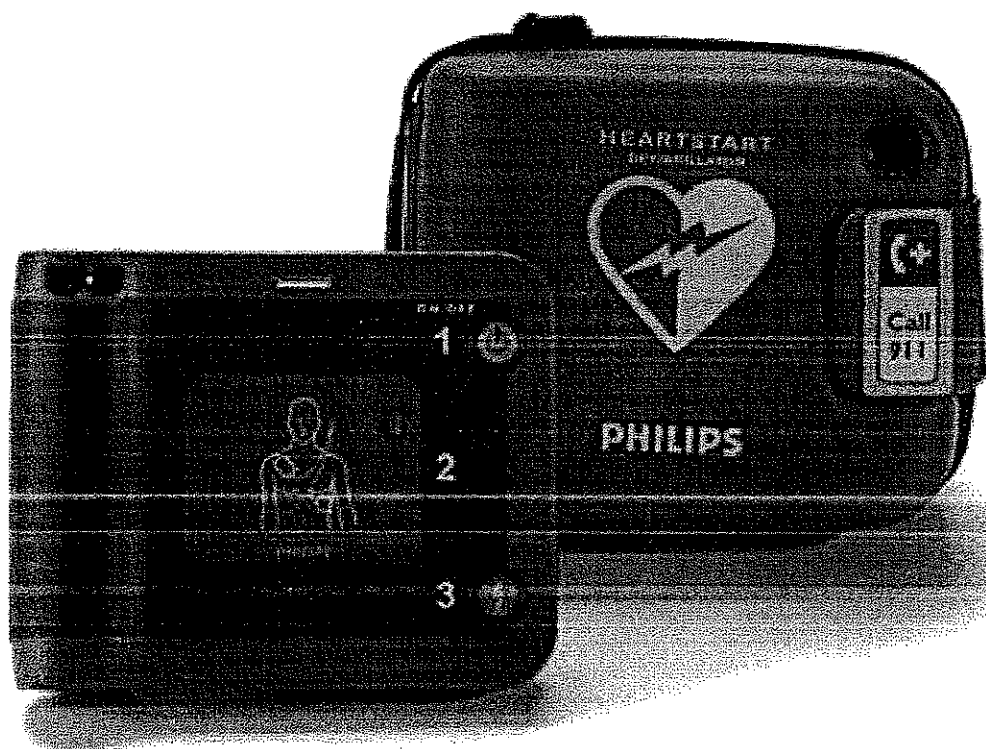


Philips HeartStart FRx Defibrillator
Product information

HEARTSTART
DEFIBRILLATORS

Introducing the Philips HeartStart

FRx Defibrillator



For more than a century, Philips has pioneered technology that makes life better. Today, we're taking this commitment one step further: creating products that not only enhance life, but also preserve it. The Philips FRx Defibrillator is the newest member of the HeartStart family of defibrillators designed with new technological advancements to help in treating the most common cause of SCA.

The Philips HeartStart FRx Defibrillator is designed to be easy to use, rugged and reliable for those who get there first. On the scene with

law enforcement, on the field with student athletes or on the job with employees, the FRx Defibrillator is the solution for treating SCA from ventricular fibrillation in environments and conditions too demanding for many other defibrillators.

The HeartStart FRx Defibrillator carries innovation in its genes. Building on the successes of the other members of the HeartStart family of defibrillators, the FRx brings innovations to the treatment of SCA.

Introducing the advancements of the Philips HeartStart FRx Defibrillator

Preconnected SMART Pads II

Pads for all patients. Save valuable time in an emergency with preconnected pads for use on adults and children. SMART Pads II eliminate the expense of having to purchase different pads sets for different patient types.

Wireless Data Transfer

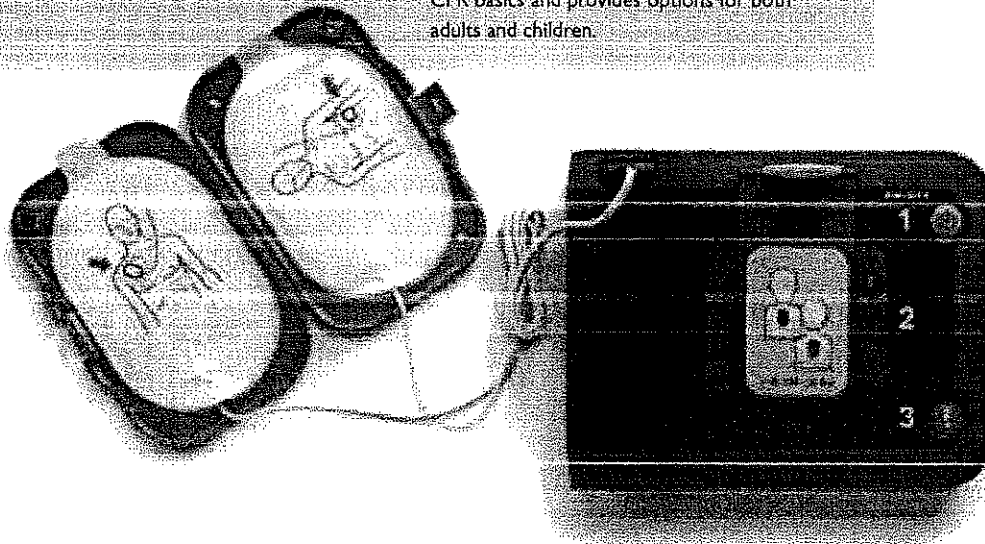
A first in defibrillation technology, the FRx provides a mobile, wireless solution for data management using the Palm OS® platform. It features an infrared data port for easy transmission of information without cables or hardware compatibility issues.

Infant/Child Key

Simply insert the Infant/Child Key into the FRx to signal to the device that you're treating an infant or a child. The defibrillator adjusts to provide special pads placement and CPR instructions. The pads icons also flash to show you the appropriate pads placement and the device reduces the shock energy to a level more appropriate for an infant or a child (less than 55 pounds or 8 years of age).

CPR Coaching

Available only on HeartStart Defibrillators, CPR Coaching reminds the responder of CPR basics and provides options for both adults and children.



SMART Technology, only from Philips

At the core of all HeartStart Defibrillators is SMART Biphasic technology. The HeartStart FRx Defibrillator's biphasic waveform delivers a highly effective defibrillation shock that is also gentle to the heart. No other external defibrillation therapy has been supported by more published clinical data.⁷

SMART Analysis, a proven Philips technology for heart rhythm assessment, ensures that the FRx Defibrillator only shocks when it should. SMART Analysis automatically assesses the

victim's heart rhythm and is designed not to deliver a shock unless the rhythm is determined to be shockable — even if the shock button is pressed. What's more, SMART Pads II enable the FRx to keep pace with the responder by adjusting to their actions.

Designed for real world use

The Philips HeartStart FRx Defibrillator is exceptionally rugged. Designed to surpass rigorous testing requirements, the FRx withstands jetting water, loads up to 500 pounds and a one-meter drop onto concrete.

Built on a platform of proven ease-of-use

The HeartStart FRx Defibrillator was designed to be as easy to use as the HeartStart OnSite Defibrillator and shares many of its features, including CPR Coaching and intuitive icon-driven operation. Although small and lightweight — just 3.5 pounds — the FRx is equipped to guide you through the resuscitation of a SCA victim.

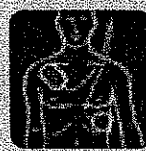
The HeartStart FRx guides you through every step with clear, calm voice commands and descriptive visual icons. The FRx even reminds you to call emergency medical services (EMS). Pressing the blue i-button activates HeartStart CPR Coaching for assistance with CPR. The flashing icons and the Quick Reference Guide can be used to lead you through the defibrillation steps — even in situations where hearing voice instructions is a challenge.

Once EMS arrives, hand-off is fast and easy because the FRx is compatible with advanced defibrillators like the HeartStart MRx. With HeartStart adapters, our pads can be plugged into devices from other manufacturers to ensure continuity of care.

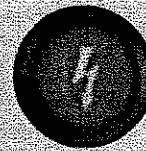
Easy as 1-2-3 in an emergency



1 Press the green on/off button, which activates voice instruction.



2 Place the pads on the patient as directed.



3 When instructed by the device, press the orange shock button.

Providing a complete, reliable solution

Reliability backed by Philips

The HeartStart FRx Defibrillator is powered by an easy to install, long-life (four-year) battery, so you know the device is charged and ready. The device's automated daily, weekly and monthly self-tests check the pads readiness, and verify functionality and calibration of circuits and systems. With over 85 tests, the FRx is one of the most comprehensive self-testing devices on the market and is virtually maintenance-free.

The blinking green "Ready" light on the defibrillator is your assurance that the device is ready for use.

Philips HeartStart Essentials—The key to a successful early defibrillation program

Philips helps implement a comprehensive program with most everything you and your medical director will need to help save a life from sudden cardiac arrest. We'll get you started with pre-implementation consulting and site assessments. We can manage your everyday needs including medical direction from a licensed physician, web-based program management, data management software, and responder and instructor training. Philips offers ongoing support with a five-year warranty, optional extended warranty and continued customer support from supplies ordering to technical assistance.

Philips HeartStart FRx Defibrillator

Product specifications

Defibrillator

Model	HeartStart FRx Defibrillator
Model Number	861304
How Supplied	Defibrillator, battery (1), SMART Pads II (1 set), Owner Manual, Quick Reference Guide
Waveform	Truncated Exponential Biphasic. Waveform parameters adjusted as a function of each patient's impedance
Energy	Single energy output: Adult: nominal 150 Joules into a 50-ohm load Infant/Child: nominal 50 Joules into a 50-ohm load
Protocol	Device follows preconfigured settings. Defibrillation and CPR protocol can be customized using HeartStart Event Review or HeartStart Configure Software

User interface

Instructions	Detailed voice prompts and visual icons guide responder through use of the defibrillator
CPR Coaching	Voice coaching for adult and infant/child CPR provides instructions and audio cues for each breath, as well as the appropriate number, rate and depth of chest compressions.
Controls	Green on/off button, blue i-button, orange shock button, optional infant/child key
Indicators	Ready light, blue i-button, caution light, illuminated pads, icons, shock button lights up when shock is advised.

Physical

Size	2.4 x 7.1 x 8.9 inches (6 x 18 x 22 cm) H x D x W
Weight	With battery and pads case: 3.5 lbs. (1.5 kg) Without battery or pads case: 2.6 lbs. (1.2 kg)

Environmental

Sealing	Waterjet proof IPX5 per IEC60529 Dust protected IP5X per IEC60529
Temperature	Operating/Standby: 32° - 122° F (0° - 50° C)
Altitude	0 to 15,000 feet
Aircraft	Device: RTCA/DO-160D; 1997
Crush	500 pounds
Vibration	Operating: meets MILSTD 810F Fig. 514.5C-17, random; Standby: meets MILSTD 810F Fig. 514.5C-18, swept sine
EMI (Radiated/Immunity)	CISPR II Group I Class B, IEC 61000-4-3, and IEC 61000-4-8

Patient analysis system

Patient Analysis	Evaluates patient ECG to determine if a rhythm is shockable. Rhythms considered shockable are Ventricular Fibrillation (VF), and certain ventricular tachycardias (VT) associated with lack of circulation. For safety reasons, some VT rhythms associated with circulation will not be interpreted as shockable, and some very low-amplitude or low-frequency rhythms will not be interpreted as shockable VF.
Sensitivity/Specificity	Meets AAMI DF80 guidelines and AHA recommendations for adult defibrillation (Circulation 1997;95:1677-1682)
Shock Advised	Able to deliver a shock as soon as the device indicates a shock is advised
Quick Shock	Able to deliver a shock after the CPR pause, typically in eight seconds

Shock-to-Shock

Cycle Time	Typically less than 20 seconds between shocks in a series
Artifact Detection	Advanced signal processing allows accurate ECG analysis even in the presence of most pacemaker artifact and electrical noise sources. Other artifacts are detected and corrective voice prompts issued

Battery

Item Number(s)	Standard: M5070A Aviation: 989803139301 (TSO C-142-U.S. only)
Type	9 Volt DC, 4.2 Ah, lithium manganese dioxide, disposable long-life primary cell
Capacity	Minimum 200 shocks or 4 hours of operating time
Install-By Date	Battery is labeled with an install-by date of at least five years from date of manufacture
Standby Life	Four years typical when battery is installed by the install-by date. (Will power the AED in standby state within the specified standby temperature range, assuming one battery insertion test and no uses.)

SMART Pads II

Item Number	989803139261
How Supplied	Disposable pads case containing adhesive multifunction defibrillator pads. HeartStart plug style connector clicks into device for preconnected pads solution
Active Surface Area	2.4 in ² (80 cm ²) each
Cable Length	48 inches (121.9 cm)
Use-By Date	Pads case is labeled with a use-by date of at least two years from date of manufacture

Infant/Child Key

Item Number	989803139311
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Training Pads II

Item Number	989803139271
Function	Special pads place HeartStart FRx into training mode and disable its energy delivery capability. Features 8 real-world training scenarios

Automated and user-activated self-tests

Daily Automatic Self-tests	Tests internal circuitry, waveform delivery system, pads and battery capacity
Pads Integrity Test	Specifically tests readiness-for-use of pads (gel moisture)
Battery Insertion Test	Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness
Status Indicator	Blinking green "Ready" light indicates ready for use

Data recording and transmission

Infrared	Wireless transmission of event data to PC or palmOne™ PDA using the IrDA protocol
HeartStart Event Review Software	Data management software (optional) for download and review of data retrieved through defibrillator's infrared data port
Data Stored	Store first 15 minutes of ECG and the entire incident's events and analysis decisions

*Refer to HeartStart FRx Defibrillator Owner Manual for detailed product instructions. All specifications based on 25° C unless otherwise noted. The defibrillator and its accessories are made of latex-free material.



Philips — The trusted choice

- One of the world's largest medical products companies with annual revenue of over \$6 billion
- History of innovation. Philips introduced the medical X-ray tube in 1918, the audiocassette in 1963, the first VCR and created compact disc technology
- With over 200,000 automated external defibrillators installed, Philips has more AEDs on the job, in the air, in the classroom and in neighborhoods than anyone else*
- Over 4.5 billion HeartStart Defibrillator service hours logged, with an additional 2.7 million hours added every day
- Over 17% of Fortune 1000 companies, 8 out of 10 major airlines and 43 professional sports teams rely on Philips HeartStart Defibrillators

To learn more about the HeartStart FRx Defibrillator and Philips Medical Systems, visit www.philips.com/heartstart or call 1-800-934-7372.

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•Frost and Sullivan

POWER TO SAVE A LIFE

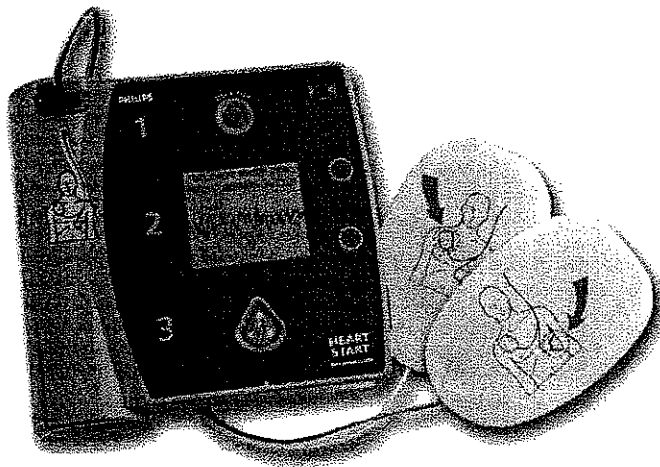
HEARTSTART
FR2+ DEFIBRILLATOR

HEARTSTART FR2+ DEFIBRILLATOR



The HeartStart FR2+ is the automated external defibrillator trusted most often by those trained and counted on to save a life.

PHILIPS



Its host of features makes it an extremely versatile and rugged defibrillator, enabling responders to potentially save the life of a coworker, friend, patient or fellow citizen under demanding circumstances.

- ▶ **Lightweight:** Fully equipped at just under 5 pounds
- ▶ **Rugged:** Designed for use in extreme environments and conditions
- ▶ **Intuitive:** 1-2-3 operation, with text and voice prompts
- ▶ **Capable:** Cleared for use on anyone of any age, including children
- ▶ **Ever-Ready:** Powered by either a long-life disposable or a rechargeable battery
- ▶ **Effective:** Clinically proven low-energy waveform

Tool of the Pros; Simplicity for the Lay Responder

The FR2+ has come to be a trusted tool of professional responders and designated response teams in the work place and public settings. Its clean, uncluttered design is optimized for fast, efficient operation and rapid delivery of life-saving therapy. Commands are clear, streamlined, confident, and concise: ideal for responders who are trained, drilled, and ready to save a life now.

The HeartStart FR2+ offers features that make hand-off to ALS professionals seamless for maximum continuity of care for the patient. An ECG display is available. The FR2+ can be configured to allow ALS responders to switch to a manual mode, giving them more decision-making control. And defibrillator pads adapters enable the pads to remain on the patient when transferring to many popular ALS manual defibrillators from Philips and other manufacturers.

But don't be misled by its advanced capabilities. The HeartStart FR2+ is extremely easy to use. Its design is based on years of research, refinement by Philips human factors experts and user testing with the full range of responders from healthcare professionals to lay people. In fact, hundreds of thousands of citizens are already trained and ready to save a life with the FR2+.

Optimized for Challenging Environments

Because of its ruggedness and ability to stand up to temperature extremes and wet conditions, the HeartStart FR2+ is the right choice for harsh, outdoor, or mobile use. It combines natural sounding voice instructions that are

loud and clear, with text prompts on a large, bright back-lit display. This makes it ideal if you anticipate use in noisy or poorly lit settings. And at just 4.7 pounds, it's incredibly small and lightweight so it won't weigh you down.

Versatility

The FR2+ is designed to be highly flexible and versatile. You can tailor your FR2+ to match your specific response protocol.

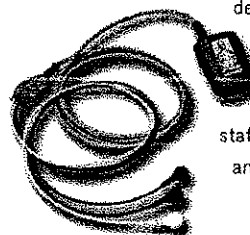
Infant/Child Defibrillation

The FR2+ can treat patients of any age. When equipped with special infant/child defibrillator pads that reduce the energy of the FR2+'s shock, you can safely treat a child or infant in cardiac arrest.



Conscious Monitoring

The reusable 3-leadwire FR2+ ECG assessment module enables the professional responder to proactively use the FR2+ to assess the rhythm of patients who are not in cardiac arrest, but are conscious, breathing, and suspected of being at risk for cardiac distress. This small lightweight defibrillator/monitoring solution is ideal for in- and out-of-hospital patient transport, bike medics, situations requiring long or difficult travel, fire rigs that may be staffed on occasion by paramedics, clinics and physicians' offices.



HEARTSTART

FR2+ DEFIBRILLATOR

Ready to Use

The HeartStart FR2+ is reliable and virtually maintenance-free. It automatically performs daily, weekly, and monthly self-tests of the battery, electrical components, and subsystems. A highly visible status indicator shows at a glance whether the FR2+ is ready for use.

The Most Thoroughly Proven Therapy

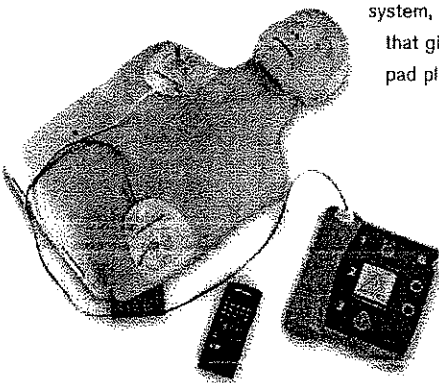
The FR2+ uses the proven SMART Analysis algorithm to ensure that a shock is delivered only if it is appropriate. And Philips' low-energy SMART Biphasic waveform delivers a highly effective defibrillation shock that is also gentle to the heart. No other external defibrillation therapy has been supported by more clinical data.

Realistic Training Keeps Your Skills Honed

To help responders maintain their lifesaving skills, Philips gives you a wide range of realistic training solutions.

When equipped with the rechargeable training and administration pack, you can actually use your FR2+ as a trainer. Its shock delivery capability is disabled while you train with ten realistic scenarios. When you connect the FR2+ to a simulator or a special manikin able to produce an ECG rhythm, you can elicit realistic FR2+ responses to various heart rhythms for even more refined training.

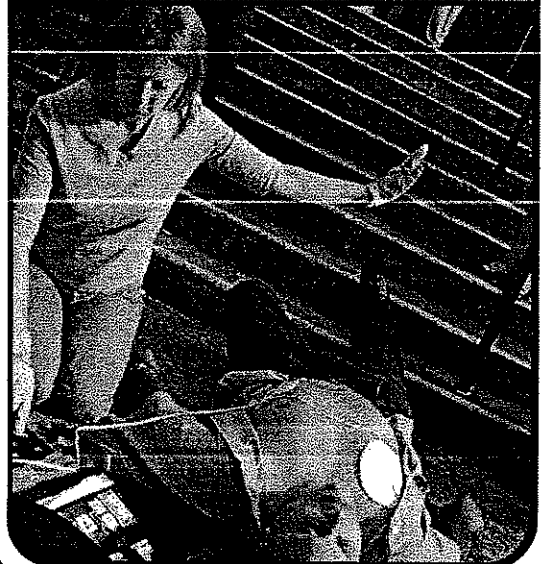
Philips also offers an economical AED trainer that comes with ten scenarios. An optional remote control enables instructors to pace the scenario to match their instruction, and to challenge the trainee with surprise scenario changes. Also available is the comprehensive AED Little Anne training system, featuring a manikin that gives the student realistic pad placement feedback.



Comprehensive Data Management

To maintain high standards of response timeliness and quality, many organizations place a high premium on detailed retrospective event reporting. The FR2+ facilitates this with an optional data card that captures patient heart rhythm, defibrillator use and, if configured, voice recording of the event. The removable data card lets you produce a variety of reports via HeartStart Event Review PC software, without taking your FR2+ out of service.

**HUNDREDS OF THOUSANDS
OF CITIZENS ARE ALREADY
TRAINED AND READY
TO SAVE A LIFE WITH THE
HEARTSTART FR2+.**



POWER TO SAVE A LIFE

TECHNICAL SPECIFICATIONS*

HEARTSTART FR2+ DEFIBRILLATOR

DEFIBRILLATOR

Defibrillator Model	With ECG M3860A With Text Only Display M3861A
How Supplied	Defibrillator, instructions for use, standard battery, defibrillator pads (2 pair), quick reference card.
Waveform	Truncated exponential biphasic. Waveform parameters adjusted as a function of patient impedance.
Energy	Single energy output. Adults: 150 J nominal into a 50ohm load; Pediatric: 50 J nominal into a 50 ohm load.
Charge Time From Shock Advised	Typically less than 10 seconds.
Shock-to-Shock Cycle Time	Typically less than 20 seconds (including analysis time) in automated mode.
Protocol	Text and voice prompts guide user through protocol. Follows pre-configured settings. Can be modified with the M3864A training & administration pack.
Shock Delivery	Via defibrillator pads placed in anterior-anterior (lead II) position for adult defibrillation and anterior-posterior for infant/child defibrillation.
Controls	On/off, shock, screen contrast/option buttons.
Indicators	LCD screen, beeper, audio speakers, status indicator, shock button, connector socket LED.
Advanced Mode	Configurable protocol.

PHYSICAL

Size	
Height	6.6 cm. (2.6 inches)
Width	21.8 cm. (8.6 inches)
Depth	21.8 cm. (8.6 inches)
Weight	
With battery	2.1 kg. (4.7 pounds)
Without battery	1.8 kg. (3.9 pounds)

ECG DISPLAY (M3860A)

Screen	High-resolution LCD with bright back-light.
Screen Dimensions	2.8 inches wide x 2.3 inches high (7.0 cm x 5.8 cm).
Display Range	Differential: ± 2 mV full scale (nominal).
Sweep Speed	23 mm/second (nominal).
Frequency Response	1 Hz to 20 Hz (-3dB) (nominal).
Sensitivity	1.16 cm/mV (nominal).
Heart Rate	30 to 300 beats per minute updated each analysis period during monitoring.
Monitored Lead	Anterior-anterior (lead II) placement with adult defibrillation pads or ECG Assessment Module (M3860A only).

PATIENT ANALYSIS SYSTEM

Patient Analysis	Per protocol, evaluates patient ECG and signal quality to determine if a shock is appropriate, and evaluates connection impedance for proper defibrillation pad contact.
Sensitivity/Specificity	Meets AAMI DF-39 guidelines.

FR2 SERIES STANDARD BATTERY (M3863A)

Type	12 VDC 4.2 Ah lithium manganese. Disposable, recyclable, long-life, primary cells.
Capacity	Minimum 300 shocks or 12 hours operating time.
Install-By Date	Battery is labeled with an install-by date at least 5 years from date of manufacture.
Standby Life	Defines how long the battery will power the AED in standby operation within the standby temperature range (one battery insert test and no uses). 4 years minimum when battery is installed by the install-by date (5 years typical).

HEARTSTART AED DEFIBRILLATOR PADS

Configuration	DP2: two pair or DP6: six pair
How Supplied	Disposable self-adhesive defibrillation pads with integrated cable and connector.
Surface Area	100 cm ² each (nominal active surface area).
Cable Length	Approximately 122 cm (48 inches).

HEARTSTART FR2 INFANT/CHILD PADS (M3870A)

Patient	Under 8 years or 25 kg (55 pounds).
Defibrillator Compatibility	FR2-series (FR2 and FR2+) automated external defibrillator only.
Configuration	M3870A FR2 Infant/Child Reduced Energy Defibrillator Pads. 1 set per package.
How Supplied	Disposable self-adhesive pads with cable and connector.
Energy Delivered	Reduces defibrillator shock energy to nominal 50 Joules into a 50 ohm load.
Surface Area	44 cm ² each pad (nominal active surface area).
Cable Length	Approximately 122 cm (48 inches).

MEDICAL CONTROL/RECORDING FEATURES

Standard Event Review	Elapsed time and number of shocks are displayed on screen.
Enhanced Event Review	Optional data card (M3854A) expands the above on-screen event review capabilities. Review chronological events in detail including ECG. 8 Hours of event & ECG recording or one hour if voice recording is activated.

ENVIRONMENTAL/PHYSICAL REQUIREMENTS

Sealing	Meets IEC529 class IP54 with battery and data card tray installed.
Temperature	Operating: 0° - 50° C (32° - 122° F) Standby: 0° - 43° C (32° - 109° F) Standby applies to AED with battery installed and stored with defibrillation pads.
Humidity	Operating: 0% to 95% relative humidity (non-condensing) Standby: 0% to 75% relative humidity (non-condensing)
Altitude	-500 to 15,000 feet per MIL-STD-810E 500.3 Procedure II.
Aircraft	Method: RTCA/DO-1600: 1997 Section 21 (Category M - Charging).
Shock/Drop Abuse Tolerance	1 meter any edge, corner or surface. MIL-STD-810E 516.4 Procedure IV.
Vibration	MIL-STD-810E 514.4-17
EMI	Requirements: Tested to EN60601-1-2 Limits Radiated: Method EN55011: 1998 Group 1 Level B Immunity: Method EN61000-4-3:1998 Level 2

AUTOMATED AND USER ACTIVATED SELF TESTS

Automatic Self-Tests	Tests internal circuitry, waveform delivery system, and battery capacity. Verifies calibration of key circuits monthly.
Automatic Self-Test Frequency	Daily when stored within operating environmental conditions.
Status Indication	Dynamic visual and audible indication of self-test results. Indicates device readiness.
Battery Insertion Test	Upon battery insertion, extensive automatic self-tests and user interactive tests check device readiness. Verifies calibration of key circuits.
Automatic Standby Temperature Monitoring	Instrument automatically monitors temperature and warns user if device is stored outside of standby temperature range.

FR2+ TRAINING AND ADMINISTRATION PACK (M3864A)

Function	Places FR2+ in scenario-based training mode and disables energy delivery. 10 real-world scripts provided. Permits modification of preprogrammed FR2+ protocol.
Type	12 VDC 1.1 Ah Rechargeable Nickel Metal Hydride.
Capacity	Minimum 4 hours training time.
Recharge Time	90 minutes to full capacity using M3865A charger (sold separately).

* Refer to FR2+ User Guide for detailed product use instructions. All specifications based on 25° C unless otherwise noted. Specifications are subject to change. FR2+ and accessories are made of latex-free materials.

POWER TO SAVE A LIFE

Philips, Leading the Way

Philips, a leader in defibrillation technology,* offers a full portfolio of resuscitation products, helping rescuers treat SCA quickly and effectively wherever it occurs, from the home to the hospital and the places in between, where people live, work and play.

To learn more about the HeartStart FR2+ Defibrillator, Philips Medical Systems and these services, call 800-453-6860 or visit www.medical.philips.com/cms.

* Frost and Sullivan



HEARTSTART

FR2+ DEFIBRILLATOR

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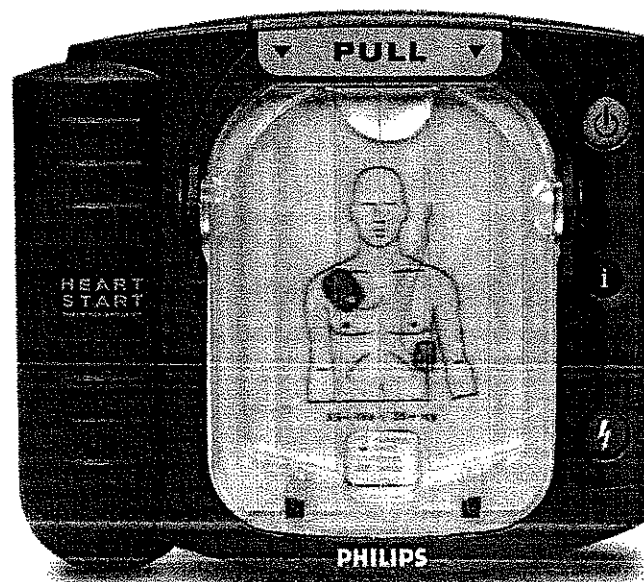
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NOTE: The HeartStart FR2+ Defibrillator and some of its
accessories are available with a prescription.

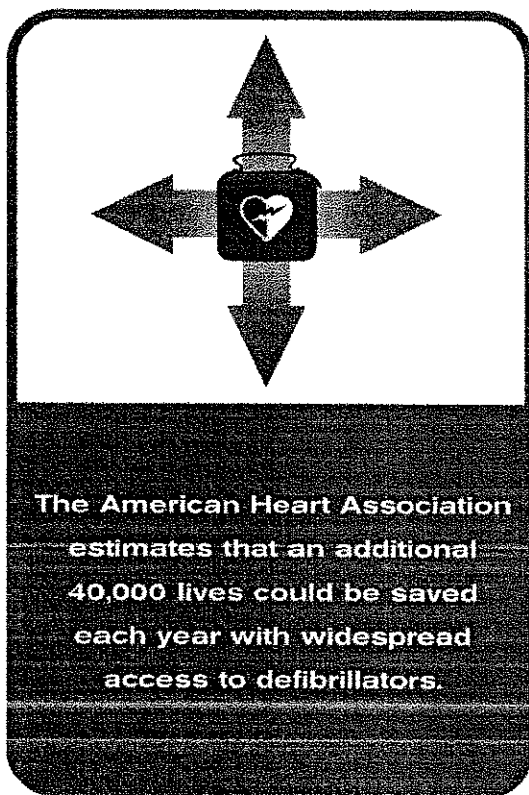
POWER TO SAVE A LIFE

HEARTSTART
ON-SITE DEFIBRILLATOR

HEARTSTART ON-SITE DEFIBRILLATOR



For the Ordinary Person in the Extraordinary Moment.



The Movement to Save More Lives

Over the last 20 years, there has been a widespread effort to move defibrillators into communities where they can be accessed and used by trained citizens, who might be present at the onset of SCA or first on the scene. To that end, Philips produces easy-to-use automated external defibrillators. Our HeartStart defibrillators enable almost anybody to treat SCA quickly and effectively, wherever it happens — at work, at play, in the air — providing the power to save a life.

The HeartStart OnSite Defibrillator

Philips, the leader in defibrillation technology,* designed the HeartStart OnSite Defibrillator for the ordinary person in the extraordinary moment. Our innovative technology, based on extensive research and user feedback, has produced a defibrillator so easy to use that, with minimal training, you can potentially save the life of a co-worker, friend, or anyone else stricken with sudden cardiac arrest.

Weighing just 3.3 lbs., this small and lightweight defibrillator can be easily carried to the patient's side. Using clear, natural voice instructions, the OnSite Defibrillator guides you, the first caregiver on the scene, through each step of defibrillation and CPR. Integrated SMART Pads placed on the patient's bare skin transmit information to the defibrillator, which senses and adapts to your actions every step of the way.

HeartStart OnSite includes proven Philips technologies for heart rhythm assessment (SMART Analysis) and defibrillation energy delivery (SMART Biphasic). And like all HeartStart defibrillators, it can be used to treat infants, children and adults.

Ready When Needed

HeartStart OnSite is powered by a simple, safe, long-life (four-year) battery, the same technology used in cameras. Just click the battery in place, and the defibrillator is standing by, ready for use.

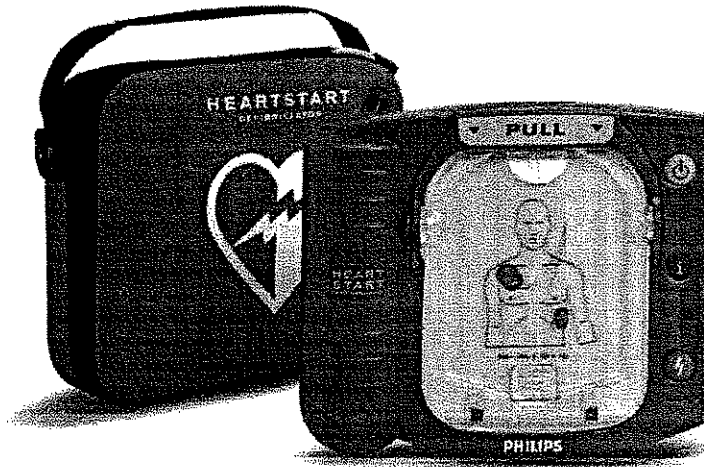
Between uses, the defibrillator performs daily, weekly, and monthly self-tests of its electrical components, sub-systems, and battery to help ensure continued reliability and readiness. A pads integrity test, which checks daily that the cartridge is properly installed and that the defibrillator pads are in working order, provides an additional level of assurance.

As long as the green "Ready" light on the defibrillator is blinking, you can be certain the HeartStart OnSite is ready for use. If any part of the defibrillator needs attention, the "Ready" light turns off and the defibrillator "chirps" to alert you. Pressing the flashing blue "Information" button provides verbal guidance to help you identify and correct the situation.

*Frost & Sullivan

HEARTSTART

ONSITE DEFIBRILLATOR



HeartStart OnSite Defibrillator is designed to enable you to help save a life in extraordinary circumstances.

- ▶ **Lightweight:** Fully equipped at just 3.3 pounds.
- ▶ **Intuitive:** Clean design and clear voice instructions instill the confidence that's needed when administering therapy to a person in cardiac arrest.
- ▶ **Ever-Ready:** Powered by a long-life (4-year) disposable battery. Automated tests help ensure readiness.
- ▶ **Versatile:** Available for use on anyone of any age, including children and infants.
- ▶ **Effective:** Patented SMART Analysis heart rhythm assessment and SMART Biphasic defibrillation therapy, clinically proven in nearly 10 years of use. No other biphasic waveform is as well documented.

Easy To Use

Using the HeartStart OnSite Defibrillator is simple. Pulling the green handle powers-up the defibrillator and activates voice instructions. These instructions are paced to your actions, to help guide you through the entire process, from placing pads on the patient to delivering a defibrillation shock.

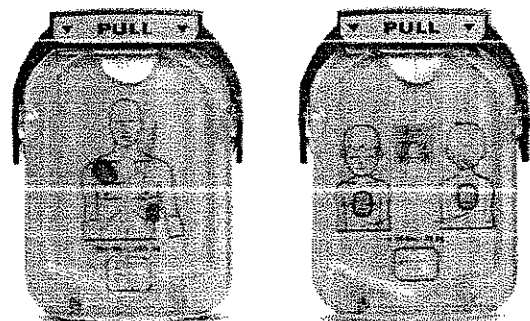
HeartStart OnSite determines if a shock is needed, based on its automated assessment of the victim's heart rhythm:

- ▶ If a shock is needed, the defibrillator directs you to press the flashing orange "Shock" button. Then, HeartStart OnSite delivers a dose of low-energy biphasic therapy, a highly effective defibrillation waveform that is also gentle to the heart.
- ▶ If a shock is not needed, the OnSite Defibrillator instructs you to assess the patient and to perform CPR when necessary. While performing CPR, the defibrillator's voice instructions can be activated to coach you on the frequency and depth of compressions.

HeartStart OnSite also reminds you to call emergency medical services (EMS). And, should EMS need a summary of care, it can be retrieved from the defibrillator's internal memory. An EMS provider simply presses the "i-button" and HeartStart OnSite verbally recounts events from its last clinical use.

Replaceable SMART Pads Cartridges

The cartridge contains two adhesive pads that are peeled and placed on the patient's bare skin as indicated by the pictures on the pads. The pads are "smart" because they can sense that they have been removed from the cartridge and applied to the patient.



HeartStart OnSite can be used on patients of any age. Special Infant/Child SMART Pads reduce the defibrillator's shock energy, so that you can treat an infant or child suffering sudden cardiac arrest. The Infant/Child Pads cartridge is marked with an indication of the appropriate weight and with a teddy bear icon for ready identification.

To practice your skills, a special training pads cartridge (adult or infant/child) can be installed in the defibrillator. It suspends the defibrillator's ability to shock, while walking you through patient care scenarios.

TECHNICAL SPECIFICATIONS

HEARTSTART ONSITE DEFIBRILLATOR

DEFIBRILLATOR

Defibrillator Model	HeartStart M5066A
Defibrillator Family	HS1
How Supplied	Defibrillator, Instructions for Use, battery, adult SMART Pads cartridge (2), Quick Reference
Waveform	Truncated Exponential Biphasic. Waveform parameters adjusted as a function of each patient's impedance.
Energy	Single energy output. Adult: nominal 150 Joules into a 50 ohm load. Infant/Child: nominal 50 Joules into a 50 ohm load. Automatically set based on type of SMART Pads cartridge installed.
Shock-to-Shock Cycle Time	Typically less than 20 seconds.
Protocol	Voice prompts and indicators guide user through protocol. Follows preconfigured settings. Can be modified with HeartStart Event Review software.
Voice Instructions	Detailed voice messages guide responder through use of the defibrillator.
CPR Voice Coaching	Voice instructions in adult and infant/child CPR available at user's option.
Shock Delivery	Via adhesive pads placed on patient's bare skin as illustrated on pads.
Controls	Green SMART Pads cartridge handle, Green On/Off button, Blue i-button, Orange shock button.
Indicators	Ready light; Blue i-button; Caution light.

PHYSICAL

Size	
Height	2.8" (7 cm)
Width	8.3" (21 cm)
Depth	7.4" (19 cm)
Weight	
With battery and pads cartridge	3.3 lbs. (1.5 kg)
Without battery or pads cartridge	2.4 lbs. (1 kg)

ENVIRONMENTAL/PHYSICAL REQUIREMENTS

Sealing	Drip proof per EN60529 class IPX1. Solid Objects per EN60529 class IP2X.
Temperature	Operating: 32° - 122° F (0° - 50° C) Standby: 50° - 109° F (10° - 43° C)
Humidity	Operating: 0% to 95% relative, non-condensing Standby: 0% to 75% relative, non-condensing
Altitude	Operating: 0 to 15,000 feet Standby: 0 to 8,500 feet >48 hours and 8,500 to 15,000 feet <48 hours
Shock/Drop Abuse	Withstands 1 meter drop to any edge, corner or surface.
Vibration	Meets EN1785 random and swept sine, road ambulance specification in operating and standby states.
EMI (Radiated/Immunity)	Meets EN55011 Group 1 Level B Class B and EN61000-4-3.

PATIENT ANALYSIS SYSTEM

Patient Analysis	Evaluates patient ECG and signal quality to determine if a shock is appropriate, and evaluates connection impedance for proper defibrillation pad contact.
Sensitivity/Specificity	Meets AAMI DF39 guidelines and AHA recommendations for adult defibrillation (Circulation 1997;95:1677-1682).
Artifact Detection	The effects of pacemaker artifact and electrical noise are minimized with artifact detection.

BATTERY (M5070A)

Type	9 Volt DC, 4.2 Ah, lithium manganese dioxide, disposable long-life primary cell.
Capacity	Minimum 90 shocks or 3 hours of operating time.
Install-By Date	Battery is labeled with an install-by date of at least five years from date of manufacture.
Standby Life	Four years typical when battery is installed by the install-by date. (Will power the AED in standby state within the specified standby temperature range, assuming one battery insertion test and no defibrillation uses.)

SMART PADS

Adult SMART Pads Cartridge	M5071A defibrillation pads for patients 8 years of age and older or 55 lbs. (25 kg) and over.
Infant/Child SMART Pads Cartridge	M5072A defibrillation pads for patients under 8 years of age or 55 lbs. (25 kg).
Energy Delivered	Adult: nominal 150 Joules into a 50 ohm load. Infant/Child: nominal 50 Joules into a 50 ohm load.
How Supplied	Disposable cartridge, containing adhesive defibrillation pads, clicks into defibrillator for an integrated pads solution.
Active Surface Area	13.2 in ² (85 cm ²) each
Cable Length	Adult pads: 54 inch (137.1 cm) Infant/Child pads: 40 inch (101.6 cm)
Use-By Date	Cartridge is labeled with a use-by date of at least two years from date of manufacture.

TRAINING PADS

Adult Training Pads Cartridge	M5073A
Infant/Child Training Pads Cartridge	M5074A
Function	Special pads place HeartStart OnSite into training mode and disable its energy delivery capability. Feature 8 real-world training scripts.

AUTOMATED AND USER-ACTIVATED SELF-TESTS

Daily Automatic Self-tests	Tests internal circuitry, waveform delivery system, pads cartridge and battery capacity.
Pads Integrity Test	Specifically tests readiness-for-use of pads (gel moisture).
Battery Insertion Test	Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness.
Status Indicator	Blinking green Ready light indicates ready for use.

DATA RECORDING AND TRANSMISSION

Infrared	Wireless transmission of event data to personal computer using the IrDA protocol.
HeartStart Event Review Software	Data management software "optional" for download and review of data retrieved through defibrillator's infrared data port.
Data Stored	First 15 minutes of ECG and the entire incident's events and analysis decisions.

Refer to HeartStart OnSite Defibrillator Instructions for Use for detailed product instructions. All specifications based on 25° C unless otherwise noted. The defibrillator and its accessories are made of latex-free materials.

POWER TO SAVE A LIFE

HEARTSTART ONSITE DEFIBRILLATOR

Philips, Leading the Way

Philips, the leader in defibrillation technology, offers a portfolio of resuscitation products to help rescuers treat SCA quickly and effectively wherever it occurs.

Philips automated defibrillators are located in a wide range of settings, such as office buildings, industrial complexes, hospitals, airports and airplanes, resorts, fitness centers, shopping malls and educational facilities.

As the newest addition to the Philips line of defibrillators, HeartStart OnSite optimizes advanced defibrillation technology and makes it available to a broad range of users. Now, this therapy can be seconds away in the home, office, or in any public or private location where people work, live and play.

To learn more about HeartStart OnSite Defibrillator and Philips Medical Systems, visit www.medical.philips.com/cms or call 800-453-6860.



PHILIPS MEDICAL SYSTEMS IS PART OF ROYAL PHILIPS ELECTRONICS

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Printed in U.S. November 2002

Part #5990-0372EN

NOTE: The HeartStart OnSite Defibrillator and some of its accessories are available with a prescription.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

SEP - 8 2005

Philips Medical System
c/o Mr. Peter Ohanian
Director, Quality and Regulatory Affairs
Cardiac and Monitoring Systems
3000 Minuteman Road
Andover, Massachusetts 01810-1099

Re: K051134

Trade Name: Heartstart MRx with Q-CPR Option Models M3535A or M3536A
Regulation Number: 21 CFR 870.5310
Regulation Name: Automated External Defibrillator
Regulatory Class: Class III (three)
Product Code: MKJ, LDD, DRO, DPS, DXN, CCK, DQA, MWI LIX
Dated: August 29, 2005
Received: August 30, 2005

Dear Mr Ohanian:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

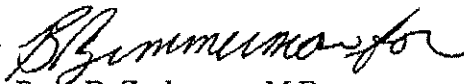
Page 2 – Mr. Peter Ohanian

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0295. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



Bram D. Zuckerman, M.D.

Director

Division of Cardiovascular Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

2. Indications for Use

510(k) Number (if known): K051134

Device Name: Philips Medical Systems, HeartStart MRx monitor/defibrillator with Q-CPR™ option

The HeartStart MRx monitor/defibrillator with Q-CPR™ option is for use for the termination of ventricular tachycardia and ventricular fibrillation.

The device is for use by qualified medical personnel trained in the operation of the device and qualified by training in basic life support, advanced cardiac support, or defibrillation. It must be used by or on the order of a physician.

AED Therapy

To be used in the presence of a suspected cardiac arrest on patients of at least 8 years of age that are unresponsive, not breathing and pulseless.

Manual Defibrillation Therapy

Asynchronous defibrillation is the initial treatment for ventricular fibrillation and ventricular tachycardia in patients that are pulseless and unresponsive. Synchronized defibrillation is indicated for termination of atrial fibrillation.

Non-Invasive External Pacing Therapy

The pacing option is intended for treating patients with symptomatic bradycardia. It can also be helpful in patients with asystole, if performed early.

Pulse Oximetry

The SpO2 option is intended for use when it is beneficial to assess a patient's oxygen saturation level.

Non-Invasive Blood Pressure Monitoring

The NIBP option is intended for noninvasive measurement of a patient's arterial blood pressure.

[continued...]

Prescription Use X

and/or

Over-The-Counter Use _____

(Per 21 CFR 801 Subpart D)

(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE)

~~Concurrence of CDRH, Office of Device Evaluation (ODE)~~

(Division Sign-Off)

Division of Cardiovascular Devices

510(k) Number K051134

510(k) Number (if known): K051134

Device Name: Philips Medical Systems, HeartStart MRx monitor/defibrillator with Q-CPR™ option

Indications for Use: [continued...]

Endtidal CO2 Monitoring

The EtCO2 option is intended for noninvasive monitoring of a patient's exhaled carbon dioxide and to provide a respiration rate.

12-Lead ECG

The 12-Lead ECG option is intended to provide a conventional diagnostic 12-Lead ECG report, which may include measurements and interpretative statements.

Q-CPR

The Q-CPR™ option provides feedback designed to encourage rescuers to perform resuscitation in accordance with AHA/ERC guidelines for chest compression rate, depth, and duty cycle and ventilation rate, volume, and flow rate (inflation time).

The Q-CPR option is contraindicated as follows:

- The Q-CPR option is contraindicated for use on neonatal and pediatric patients (under 8 years of age or weighing less than 25 kg).
- The Q-CPR option is not for use when CPR is contraindicated.

Prescription Use X

and/or

Over-The-Counter Use

(Per 21 CFR 801 Subpart D)

(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON ANOTHER PAGE)

Concurrence of CDRH, Office of Device Evaluation (ODE)


(Division Sign-Off)
Division of Cardiovascular Devices

510(k) Number K051134



PHILIPS

Philips Medical Systems.
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Seattle, WA 98121

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206 664 5001 facsimile
www.medical.philips.com

Warranty

Limited Warranty. Philips Medical Systems warrants that HeartStart FR2 series defibrillators HeartStart HS1 series, and HeartStart FRx defibrillators (and related accessories for these